

STRUCTURAL GENERAL NOTES

1. ARCHITECTURAL ELEVATION 100'-0" = MATCH ADJACENT BUILDING MAIN FLOOR ELEVATION (FIELD VERIFY).
2. EXISTING CONSTRUCTION
A. DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING CONSTRUCTION HAVE BEEN OBTAINED FROM LIMITED FIELD INVESTIGATION AND EXISTING DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS NECESSARY TO PROPERLY COORDINATE NEW AND EXISTING CONSTRUCTION, AND PRIOR TO FABRICATION AND CONSTRUCTION, NOTIFY THE ENGINEER OF ALL VARIATIONS IN THE DETAILS, DIMENSIONS, AND ELEVATIONS OF EXISTING CONSTRUCTION.
WITH THAT SHOWN ON THE DRAWINGS.
B. CLEAN AND PREPARE ALL EXISTING SURFACES WHICH WILL BE IN CONTACT WITH NEW CONSTRUCTION AS INDICATED AND AS ACCEPTABLE TO ENGINEER. APPLY BONDING COMPOUND TO ALL EXISTING CONCRETE AND MASONRY SURFACES WHICH WILL BE IN CONTACT WITH NEW CONCRETE IMMEDIATELY PRIOR TO PLACEMENT. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION.
C. FURNISH AND INSTALL TEMPORARY SHORING OR BRACING AS NECESSARY TO PROVIDE SUPPORT AND STABILITY FOR EXISTING WALLS AND FRAMING DURING DEMOLITION AND CONSTRUCTION.
3. FUTURE CONSTRUCTION
STRUCTURE DESIGN INCLUDES PROVISIONS FOR SECOND STORY AND ROOF EXPANSION. MAXIMUM DESIGN LOADS FOR FUTURE EXPANSION ARE INDICATED IN DRAWINGS.
4. EQUIPMENT INSTALLATION
A. ALL OPENINGS SHOWN SHALL BE VERIFIED, AND ALL STRUCTURAL DIMENSIONS AND DETAILS PERTAINING TO EQUIPMENT INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ACTUAL EQUIPMENT FURNISHED.
B. EQUIPMENT SUPPORTS, ANCHORAGES AND OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED PRIOR TO PLACING CONCRETE.
C. MECHANICAL UNITS SUPPORTED BY ROOF OR FLOOR STRUCTURE ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. ALL KNOWN UNITS HAVE BEEN SHOWN ON PLAN. IF UNITS' GEOMETRY INCREASES, OPERATING WEIGHT INCREASES, IF LOCATION CHANGES, IF ADDITIONAL UNITS ARE REQUIRED, OR STRUCTURAL CHANGES ARE REQUIRED FOR ANY REASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND COORDINATION OF ALL DETAILS PERTAINING TO THE INSTALLATION OF THE ACTUAL EQUIPMENT. DESIGN SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER-OF-RECORD REVIEW.

APPLICABLE SPECIFICATIONS AND CODES

CONSTRUCTION AND DESIGN SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION WITH LOCAL AMENDMENTS, AND WITH THE LATEST EDITION OF THE APPLICABLE SPECIFICATIONS AND THE REQUIREMENTS NOTED AS FOLLOWS:

ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

DESIGN LOADS

1. DESIGN LOADS AND LOAD APPLICATIONS ARE IN ACCORDANCE WITH BUILDING CODE.
2. BUILDING CATEGORY IV
3. FLOOR LOADS
A. UNIFORM FLOOR LIVE LOADS
i) OFFICE BUILDINGS (FILE & COMPUTER ROOMS) 125 PSF
ii) OFFICE BUILDINGS (LOBBIES & 1ST FLOOR CORRIDORS) 100 PSF & 2,000 LBS CONCENTRATED LOAD
iii) OFFICE BUILDINGS (OFFICES + PARTITION FLOOR) 50-15 PSF & 2,000 LBS CONCENTRATED LOAD
iv) FILE STORAGE & COMPUTER ROOMS 125 PSF
v) MECHANICAL ROOMS 150 PSF
vi) OFFICE BUILDINGS (CORRIDORS ABOVE FIRST FLOOR) 80 PSF & 2,000 LBS CONCENTRATED LOAD
vii) STAIRS, LANDINGS & EXITS 100 PSF
viii) FLOOR LIVE LOAD REDUCTIONS APPLIED IN ACCORDANCE WITH THE BUILDING CODE.
B. UNIFORM FLOOR DEAD LOADS
i) PRECAST PLANK FLOOR SYSTEMS 85 PSF
(INCLUDES CARPET, 2" CONCRETE TOPPING, 8" PRECAST PLANK & 5/8" THICK GYPSUM CEILING BELOW)
ii) CEILING DEAD LOADS (MECH & ELEC) 5 PSF
(INCLUDES CEILING FRAMING, TYPICAL MECHANICAL & ELECTRICAL ELEMENTS)
4. ROOF LOADS
A. SNOW LOAD CRITERIA
i) BASIC GROUND SNOW LOAD $P_g = 50$ PSF
ii) EXPOSURE FACTOR $C_e = 1.0$ (PARTIALLY EXPOSED, EXPOSURE C)
iii) THERMAL FACTOR $C_t = 1.1$ (COLD VENTILATED AREAS)
iv) IMPORTANCE FACTOR $I_s = 1.2$
B. MINIMUM ROOF SNOW LOAD 42 PSF (HEATED STRUCTURES)
46 PSF (COLD VENTILATED ROOF SYSTEMS)
C. DRIFT SURCHARGE LOADS IN ACCORDANCE WITH ASCE 7.
D. FLAT ROOF DEAD LOAD
i) EPDM ROOF 60 PSF
(INCLUDED EPDM ROOFING AND 8" PRECAST PLANK, BALLAST NOT INCLUDED IN DESIGN)
ii) CEILING DEAD LOAD (MECH & ELEC) 5 PSF
(INCLUDES CEILING FRAMING, TYPICAL MECHANICAL & ELECTRICAL ELEMENTS)
iii) CEILING SPECIALTY DEAD LOADS (IT AREA) SEE DRAWING S203
iv) FUTURE DESIGN LOADS SEE PLAN
E. SLOPED ROOF DEAD LOAD
i) SHINGLED ROOF 20 PSF
(INCLUDES SHINGLES, PLYWOOD SHEATHING, TRUSSES, INSULATION & 5/8" THICK GYPSUM CEILING BELOW)
ii) CEILING DEAD LOAD (MECH & ELEC) 5 PSF
(INCLUDES CEILING FRAMING, TYPICAL MECHANICAL & ELECTRICAL ELEMENTS)
F. ROOF SUPPORTED MISC. EQUIPMENT SEE SPECIAL LOADS BELOW OR NOTED ON PLANS
5. WIND FORCES
A. BASIC WIND SPEED 90 MPH
B. EXPOSURE CATEGORY C
C. IMPORTANCE FACTOR $I_w = 1.15$

COMPONENT AND CLADDING WIND PRESSURES FOR FLAT ROOFS (PSF)

	TRIBUTARY AREA (SQ. FT.)			
	0-10	10-20	20-50	50-100
1	8.3	7.8	7.1	6.5
	-20.3	-19.8	-19.1	-18.6
2	8.3	7.8	7.1	6.5
	-34.1	-30.7	-25.5	-22.1
2'	NA	NA	NA	NA
	NA	NA	NA	NA
3	8.3	7.8	7.1	6.5
	-51.3	-42.7	-30.7	-22.1
3'	NA	NA	NA	NA
	NA	NA	NA	NA
4	18.6	17.1	16.3	15.5
	-20.2	-19.4	-18.6	-17.1
5	18.6	17.1	16.3	15.5
	-24.8	-23.3	-21.7	-19.4

COMPONENT AND CLADDING WIND PRESSURES FOR GABLE ROOFS (PSF)

ZONES	TRIBUTARY AREA (SQ. FT.)			
	0-10	10-20	20-50	50-100
1	18.6	18.1	17.4	16.9
	-20.3	-19.2	-18.0	-16.9
2	18.6	18.1	17.4	16.9
	-23.8	-22.6	-21.5	-20.3
2 OVERHANG	NA	NA	NA	NA
	-37.6	-36.4	-35.3	-34.1
3	18.6	18.1	17.4	16.9
	-23.8	-22.6	-21.5	-20.3
3 OVERHANG	NA	NA	NA	NA
	-37.6	-36.4	-35.3	-34.1
4	20.3	18.6	17.7	16.9
	-22.1	-21.2	-20.3	-18.6
5	20.3	18.6	17.7	16.9
	-27.2	-25.5	-23.8	-21.2

6. SEISMIC CRITERIA
A. SEISMIC DESIGN CATEGORY A
B. IMPORTANCE FACTOR $I = 1.50$
7. SPECIAL LOADS
A. MECHANICAL EQUIPMENT LOADS ACTUAL OPERATING LOADS
B. PARTITION AND INTERIOR WALL LIVE LOAD 5 PSF LATERAL
8. ADDITIONAL LOADS REFERENCED ON THE STRUCTURAL DRAWINGS.

CONSTRUCTION LOADS

1. STRUCTURES HAVE BEEN DESIGNED FOR DEAD LOADS AND THE DESIGN LOADS NOTED ABOVE. PROVIDE TEMPORARY BRACING, SHORING, OR OTHER SUPPLEMENTAL SUPPORT DURING CONSTRUCTION AS NECESSARY TO PROTECT THE STRUCTURES FROM EXCESSIVE CONSTRUCTION LOADS.
2. DURING ERECTION OF THE STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LATERAL LOADS, STOCKPILES OF MATERIALS, AND EQUIPMENT. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING, INCLUDING ROOF STRUCTURE, IS IN PLACE.
3. SUPPORTING FLOORS, ROOFS, STRUCTURAL SLABS, AND BASIN TOP SLABS SHALL BE BACKFILL PRIOR TO BACKFILLING AGAINST WALLS OR FILLING OF BASINS. OTHERWISE PROVIDE SUFFICIENT WALL BRACING.

LATERAL FORCE RESISTING SYSTEM

1. LATERAL PRESSURES ON THE EXTERIOR WALLS, WHICH SPAN VERTICALLY, ARE TRANSFERRED TO THE FLOOR AND ROOF DIAPHRAGMS. COLLECTED LATERAL FORCES BY THE DIAPHRAGMS ARE TRANSFERRED TO THE FOUNDATION SYSTEM BY SHEAR WALLS BY A COMBINATION OF SHEAR AND ROTATIONAL COUPLE (UPLIFT AND DOWNWARD) FORCES.

FOUNDATION

1. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH SOIL INVESTIGATION MADE BY _____ PROJECT REPORT NUMBER _____ DATED _____
2. MINIMUM FROST COVER FROM GRADE TO BOTTOM OF FOOTING IS 48 INCHES UNLESS NOTED OTHERWISE (60 INCHES IN UNHEATED AREAS)
3. SHALLOW SPREAD FOUNDATION DESIGN CRITERIA
A. MAXIMUM ALLOWABLE NET SOIL BEARING PRESSURE 2,000 PSF
B. LATERAL SOIL PRESSURE (EQUIVALENT FLUID PRESSURE) 60 PCF
4. SHALLOW SPREAD FOUNDATION SYSTEM
A. FOOTINGS TO BEAR ON COMPACTED NATIVE SOILS OR ENGINEERED FILL.
B. ALL TOPSOIL, FILL AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED.
C. THE GENERAL CONTRACTOR TO PROVIDE GEOTECHNICAL SERVICES TO INSPECT THE EXCAVATED AREA TO ENSURE ALL MATERIALS REQUIRING REMOVAL HAVE BEEN REMOVED AND COMPACTED OR BACKFILL IS SATISFACTORY TO ACHIEVE DESIGN BEARING PRESSURE.
D. AVOID EXCESSIVE WETTING OR DRYING OF THE FOUNDATION EXCAVATIONS DURING CONSTRUCTION.
E. BACKFILL AGAINST WALLS WITH FILL ON BOTH SIDES SHALL BE COMPACTED IN EQUAL LIFTS EACH SIDE OF WALL. WALLS BACKFILLED FROM ONE SIDE ONLY SHALL HAVE ALL SUPPORTING SLABS, PERMANENT FRAMING OR TEMPORARY BRACING IN PLACE PRIOR TO PLACEMENT OF BACKFILL.

CAST-IN-PLACE CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) AND "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS" (ACI 301).
2. CONCRETE CONSTRUCTION IN HOT WEATHER SHALL CONFORM TO ACI 305.
3. CONCRETE CONSTRUCTION IN COLD WEATHER SHALL CONFORM TO ACI 306.
4. DETAILING, FABRICATION AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO ACI 315.
5. MATERIALS
A. CONCRETE
i) STRUCTURE CAST-IN-PLACE $f'_c = 4,000$ PSI
ii) EXTERIOR WALKS, CURBS, RAMPS $f'_c = 4,000$ PSI
iii) CONCRETE FILL $f'_c = 3,000$ PSI
B. REINFORCING MATERIALS
i) REINFORCING BARS ASTM A615, GRADE 60
ii) WELDED WIRE FABRIC
iii) THE USE OF POLYPROPYLENE FIBERS AS A SUBSTITUTION TO WELDED WIRE FABRIC IS PROHIBITED.
6. ALL BENT REINFORCING BARS SHALL BE SHOP FABRICATED ONLY. RE-BENDING OR WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS AUTHORIZED BY ENGINEER.
7. END HOOKS IN REINFORCING BARS, SHOWN ON THE STRUCTURAL DRAWINGS BUT NOT DIMENSIONED, SHALL CONFORM TO ACI 318.
8. CONCRETE COVER OVER REINFORCEMENT SHALL BE 2 INCHES CLEAR, EXCEPT FOR THE FOLLOWING, UNLESS OTHERWISE NOTED:
A. CONCRETE PLACED AGAINST AND PERMANENTLY IN CONTACT WITH EARTH 3 INCH CLEAR
B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH OR WATER 1.5 INCHES CLEAR
i) BEAMS, COLUMNS 1.5 INCHES CLEAR
ii) WALLS 1.5 INCHES CLEAR
iii) SLABS 0.75 INCHES CLEAR
9. REINFORCEMENT SPlice REQUIREMENTS
A. LAP WELDED WIRE FABRIC ONE FULL MESH AT SPLICES.
B. REINFORCEMENT SPLICES NOT PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY ENGINEER.
C. LAP REINFORCING BARS THE FOLLOWING MINIMUMS AT ALL SPLICES, CORNERS AND INTERSECTIONS, UNLESS OTHERWISE INDICATED. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES ON CONCRETE CAST BELOW THE BAR.

BAR SIZE	REGULAR BARS	TOP BARS
#3	1'-4"	1'-10"
#4	1'-9"	2'-5"
#5	2'-2"	3'-0"
#6	2'-7"	3'-7"
#7	3'-2"	4'-7"
#8	4'-3"	6'-0"
#9	5'-5"	7'-7"
#10	6'-10"	9'-7"

- D. STAGGER ADJACENT REINFORCEMENT LAP SPLICES IN WALLS 18 INCHES MINIMUM.
- E. BEAM AND CONTINUOUS SLAB REINFORCEMENT
i) SPLICE TOP REINFORCEMENT AT CENTERS OF SPAN BETWEEN SUPPORTS.
ii) SPLICE BOTTOM REINFORCEMENT AT SUPPORTS.
iii) TERMINATE BEAM'S TOP REINFORCEMENT WITH STANDARD HOOK AT END OF CANTILEVER OR DISCONTINUOUS BEAMS.
10. PROVIDE BAR SUPPORTS TO PROPERLY SECURE AND SUPPORT REINFORCING BARS. IN ADDITION TO NORMAL ACCESSORIES PROVIDE #3 STANDEES AT 48 INCHES O.C. TO SUPPORT TOP REINFORCEMENT IN BASE SLAB, AND #3 "U" OR "Z" SHAPED SPACERS AT 72 INCHES O.C. EACH WAY IN WALLS WITH TWO CURTAINS OF REINFORCEMENT.
11. DOWELS, PIPES AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION DURING CONCRETE PLACEMENT. ALL REINFORCEMENT IS TO BE PLACED AND SECURED PRIOR TO PLACEMENT OF CONCRETE, UNLESS OTHERWISE STATED. DOWELS SHALL BE IN PLACE, NOT INSERTED, WHILE CONCRETE IS IN A PLASTIC STATE.
12. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PART EMBEDDED IN CONCRETE. PROVIDE 2 INCH CLEARANCE IN ALL CASES UNLESS OTHERWISE INDICATED. NO EMBEDDED ITEM SHALL BE SUSPENDED FROM, SUPPORTED BY, OR BRACED IN PLACE FROM STRUCTURAL REINFORCEMENT.
13. LOCATE CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS OR AS AUTHORIZED BY ENGINEER. SLABS, JOISTS AND BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE EXCEPT WHERE DETAILED ON DRAWINGS.
14. THOROUGHLY CLEAN ALL KEYWAYS AND CONSTRUCTION JOINTS PRIOR TO PLACING CONCRETE IN ADJACENT POUR.
15. PVC WATERSTOP
A. PROTECT ALL PROJECTING WATERSTOPS FROM DAMAGE AND EXPOSURE DURING CONSTRUCTION.
B. FIRMLY TIE ALL ENDS AND EDGES OF WATERSTOPS AT 18 INCH MAXIMUM TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.
16. BEGIN SPACING OF BARS WHICH PARALLEL CONSTRUCTION AND EXPANSION JOINTS 2 INCHES CLEAR EACH SIDE OF JOINT. UNLESS OTHERWISE SHOWN, PLACE (2) - #5 (1 EACH FACE) WITH 24 INCH PROJECTIONS AROUND ALL OPENINGS IN CONCRETE WALLS AND SLABS.
17. PROVIDE AN ADDITIONAL 500 LINEAL FEET EACH OF #4 AND #5 REINFORCING BARS FOR USE AS DIRECTED DURING CONSTRUCTION.
18. CHAMFER ALL EXPOSED CONCRETE EDGES 0.75 INCHES, UNLESS OTHERWISE INDICATED.

SLAB-ON-GRADE CONCRETE

1. SLAB ON GRADE CONTRACTION JOINTS ARE DENOTED "CJ" ON DRAWINGS. SLAB ON GRADE CONSTRUCTION JOINTS ARE DENOTED "CONSTR JT". (SLAB ON GRADE CONTRACTION JOINTS ARE TO BE SPACED NO GREATER THAN 12 FEET FOR 4 INCH THICK SLAB (18 FEET FOR 6 INCH THICK SLAB) IN ANY DIRECTION, UNLESS OTHERWISE INDICATED ON PLANS.)
2. AT CONTRACTOR'S OPTION, CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTRACTION JOINTS.
3. LOCATE REINFORCEMENT 1.5 INCHES FROM TOP OF SLAB.
PROVIDE 1 - #4 x 4 FEET PARALLEL TO EDGE OF SLAB OPPOSITE THE END OF ALL DISCONTINUED SLAB JOINTS, AND 1 - #4 x 4 FEET DIAGONAL BAR AT ALL REINTRANS CORNERS. PLACE BARS MID-DEPTH IN SLAB AND 2 INCHES CLEAR FROM EDGE OF CORNER.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
A. SLOPE BOTTOM SURFACE OF SLABS AS NECESSARY TO MAINTAIN MINIMUM THICKNESS NOTED ON DRAWINGS FOR ALL SLABS WITH SLOPING TOP SURFACE OR DEPRESSION.
5. IN ORDER TO MINIMIZE CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE OR CHECKERBOARD PATTERN. THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS THAN 100 FEET.
6. FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE A.

PRECAST PRESTRESSED CONCRETE

1. DESIGN AND FABRICATION OF PRECAST PRESTRESSED CONCRETE MEMBERS SHALL CONFORM TO ACI 318 AND PRESTRESSED CONCRETE INSTITUTE MKL-316.
2. MATERIAL
A. CONCRETE MEMBERS
i) HOLLOWCORE PLANK $f'_c = 5,000$ PSI
ii) PRECAST BEAM $f'_c = 6,000$ PSI
iii) PRECAST COLUMN $f'_c = 6,000$ PSI
B. PRESTRESSING STRANDS ASTM A416, GRADE 270
3. PRECAST PRESTRESSED CONCRETE MEMBERS SHALL BE DESIGNED AND REINFORCED BY THE MANUFACTURER TO SUPPORT ALL SUPERIMPOSED DEAD LOADS AND THE DESIGN LOADS NOTED ON PLANS.
4. DEVIATIONS FROM MEMBER CROSS SECTION, LAYOUT AND CONNECTION DETAILS SHOWN ON THE DRAWINGS WILL BE PERMITTED ONLY AS AUTHORIZED BY ENGINEER.

CONCRETE TOPPING

1. CONCRETE TOPPING SHALL BE REINFORCED WITH A SYNTHETIC FIBER MEETING THE FOLLOWING REQUIREMENTS:
A. FIBRILLATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C116, TYPE III.
B. LENGTH/FIBER LENGTH SHALL BE A MINIMUM OF 1.5 INCHES.
C. DOSAGE: FIBERS SHALL BE USED AT A MINIMUM DOSAGE RATE OF 1.5 POUNDS PER CUBIC YARD OF CONCRETE.

MASONRY

1. MASONRY CONSTRUCTION SHALL CONFORM TO IBC.
2. MATERIALS
A. CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE I
i) SPECIFIED COMPRESSIVE STRENGTH $f'_m = 1,500$ PSI
ii) NORMAL WEIGHT AGGREGATE ASTM C33
B. REINFORCING BARS ASTM A615, GRADE 60
C. MORTAR ASTM C270, TYPE S
D. GROUT FOR MASONRY BOND BEAMS, LINTELS, VERTICAL WALL CORES AND JAMBS SHALL CONFORM TO ASTM C476, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
3. PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS AS NECESSARY DURING CONSTRUCTION.
4. REINFORCE ALL MASONRY WALLS WITH 9-GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCEMENT AT 16 INCHES MAXIMUM. MANUFACTURER'S STANDARD PREFABRICATED SECTION SHALL BE USED AT ALL CORNERS AND INTERSECTIONS UNLESS OTHERWISE DETAILED. LAP SIDE ROBS OF JOINT REINFORCEMENT 6 INCHES MINIMUM AT SPLICES.
5. EXCEPT WHERE OFFSETS WITH SLIP JOINTS ARE SHOWN, MASONRY CONTROL JOINTS SHALL BE A CONTINUOUS VERTICAL LINE FROM TOP OF FOUNDATION TO TOP OF MASONRY WALL, UNLESS SHOWN ON ELEVATIONS, SPACING OF CONTROL JOINTS SHALL BE TWO AND ONE HALF (2.5) TIMES THE WALL HEIGHT, BUT NOT GREATER THAN 50 FEET AT INTERIOR WALLS AND 24 FEET MAXIMUM AT EXTERIOR WALLS (U.N.O.). DISCONTINUE JOINT REINFORCEMENT AT MASONRY CONTROL JOINTS.
6. REINFORCE ALL BOND BEAMS AND JAMB BLOCKS WITH 2 - #5, UNLESS OTHERWISE NOTED.
7. LAP REINFORCEMENT FOR MASONRY BOND BEAMS AND VERTICAL WALL CORES AS NOTED BELOW. USE TYPE I LAP LENGTHS, UNLESS NOTED OTHERWISE ON PLANS.

BAR SIZE	REGULAR BARS	TOP BARS
#3	1'-3"	2'-3"
#4	1'-8"	3'-0"
#5	2'-1"	3'-9"
#6	2'-6"	4'-6"
#7	2'-11"	5'-3"
#8	3'-4"	6'-0"

8. PROVIDE DOWEL BARS FROM FOUNDATION FOR ALL VERTICAL WALL REINFORCEMENT. EMBED DOWEL BARS 40 BAR DIAMETERS IN FOUNDATION WALLS OR FURNISH WITH END HOOKS WHERE INDICATED. DOWEL SIZE SHALL MATCH WALL REINFORCEMENT.
9. SECURE REINFORCEMENT AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS NOR 10 FEET.
10. ELEVATION CHANGES IN BOND BEAMS NOT OTHERWISE INDICATED TO SLOPE SHALL BE ACCOMPLISHED BY STEPPING BOND BEAMS IN WALL WITH EACH STEP LAPPED A MINIMUM OF 5'-4".
11. GALVANIZE LOOSE STEEL LINTELS LOCATED IN EXTERIOR WALLS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. MATERIAL
A. STRUCTURAL STEEL W-SHAPES ASTM A992, GRADE 50
B. STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, AND MISC. ASTM A36
C. STRUCTURAL TUBING ASTM A500, GRADE B
D. STEEL PIPE ASTM A53, TYPE E OR S, GRADE B
E. HIGH-STRENGTH BOLTS ASTM A325
F. ANCHOR BOLTS ASTM F1554, GRADE 36
G. HEAD-ON ANCHOR STUDS ASTM A108
3. ALL STRUCTURAL STEEL BOLTED CONNECTIONS SHALL BE 0.75 INCH DIAMETER A325-N BOLTS WITH STANDARD HOLES, UNLESS OTHERWISE NOTED.
4. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL IAWS D1.1, AND SHALL BE PERFORMED BY WELDERS QUALIFIED BY THE APPROPRIATE AWS TEST FOR THE WELDING PERFORMED.
5. ALL STRUCTURAL STEEL DESIGNATED (A53) ON DRAWINGS SHALL CONFORM TO AISI SPECIFICATIONS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
6. ALL WELDS SHALL BE MADE WITH E-70 ELECTRODES.

PLYWOOD / GYPBOARD SHEATHING

1. ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS AND IBC.
2. MATERIALS
A. PLYWOOD SHEATHING APA RATED SHEATHING
3. ROOF PANEL SHEATHING
A. SUITABLE EDGE SUPPORT FOR ROOF PANEL SHEATING SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING.
B. SECURE ROOF PANEL SHEATHING AS INDICATED IN SHEATHING SCHEDULE. (UNLESS OTHERWISE NOTED SECURE ROOF PANEL SHEATHING WITH 80 COMMON NAILS AT 6 INCHES O.C. AT SUPPORTED PANEL EDGES AND 8 INCHES O.C. AT INTERMEDIATE SUPPORTS.)
4. INSTALL ALL PLYWOOD SHEATING WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS, ALLOW 1/8 INCH SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
5. ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF STAPLES IS PROHIBITED FROM USE.

COLD-FORMED METAL FRAMING

1. COLD-FORMED STEEL FRAMING CONSTRUCTION SHALL CONFORM TO THE AMERICAN IRON AND STEEL INSTITUTE'S "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS".
2. MATERIALS
A. STEEL SHEET ASTM A1003, STRUCTURAL GRADE, METALLIC COATED.

CONSTRUCTION DOCUMENTS 100%

SPECIAL INSPECTION & STRUCTURAL TESTING - GENERAL NOTES

1. THE FOLLOWING NOTES AND TABLES SHALL CONSTITUTE THE STATEMENT OF SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) SECTION 1705. THE LISTED INSPECTION REQUIREMENTS REPRESENT THE MINIMUM ACCEPTABLE LEVEL OF INSPECTION, WHERE THE BUILDING CODE OR LOCAL JURISDICTION REQUIRES A GREATER LEVEL OF INSPECTION, THOSE REQUIREMENTS TAKE PRECEDENCE.
2. OBTAIN "STRUCTURAL TESTING AND SPECIAL INSPECTION – PROGRAM SUMMARY SCHEDULE" FROM STRUCTURAL ENGINEER-OF-RECORD.
3. SPECIAL INSPECTOR AND INDEPENDENT TESTING AGENCY FOR SPECIAL INSPECTION AND TESTING SERVICES ARE THE RESPONSIBILITY AS IDENTIFIED IN TABLES.
4. DEFINITIONS:
A. "SER" DENOTES STRUCTURAL ENGINEER-OF-RECORD.
B. "APPROVED AGENCY" AS DEFINED BY IBC 2009, AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS OR FURNISHING INSPECTION SERVICES.
C. "FABRICATED ITEMS" AS DEFINED BY IBC 2009: STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING ASSEMBLIES CONSISTING OF MATERIALS ASSEMBLED PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE, OR SUBJECTED TO OPERATIONS SUCH AS HEAT TREATMENT, THERMAL CUTTING, COLD WORKING OR REFORMING AFTER MANUFACTURE AND PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE. MATERIALS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS REFERENCED BY IBC 2009, SUCH AS ROLLED STRUCTURAL STEEL, SHAPES, STEEL, REINFORCING BARS, MASONRY UNITS, AND WOOD STRUCTURAL PANELS OR IN ACCORDANCE WITH A STANDARD, LISTED IN IBC 2009 CHAPTER 35, WHICH PROVIDES REQUIREMENTS FOR QUALITY CONTROL DONE UNDER THE SUPERVISION OF A THIRD-PARTY QUALITY CONTROL AGENCY SHALL NOT BE CONSIDERED "FABRICATED ITEMS".
5. REFERENCES:
A. ASTM E829 STANDARD SPECIFICATION FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION.
B. ASTM E43 STANDARD PRACTICE FOR AGENCIES PERFORMING NONDESTRUCTIVE TESTING.
C. ASTM C1077 PRACTICE FOR LABORATORIES TESTING CONCRETE AND CONCRETE AGGREGATES FOR USE IN CONSTRUCTION AND CRITERIA FOR LABORATORY EVALUATION.
D. ASTM C1093 PRACTICE FOR ACCREDITATION OF TESTING AGENCIES FOR UNIT MASONRY.
E. ASTM D1740 PRACTICE FOR MINIMUM REQUIREMENTS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF SOIL AND ROCK AS USED IN ENGINEERING DESIGN AND CONSTRUCTION.
F. LOCAL BUILDING CODE.
G. SEE SPECIFIC REFERENCES IN TABLES BELOW.
6. QUALIFICATIONS:
A. TESTING AGENCY (TA) – THE TESTING AGENCY SHALL BE AN APPROVED INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE OWNER, ARCHITECT, SER, AND AS NOTED BELOW.
I. AN APPROVED AGENCY SHALL BE OBJECTIVE, COMPETENT AND INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED. THE AGENCY SHALL ALSO DISCLOSE POSSIBLE CONFLICTS OF INTEREST SO THAT OBJECTIVITY CAN BE CONFIRMED.
II. AUTHORIZED TO OPERATE IN THE STATE IN WHICH THE PROJECT IS LOCATED AND EXPERIENCED WITH THE REQUIREMENTS AND TESTING METHODS SPECIFIED IN TABLES BELOW.
III. MEETING APPLICABLE REQUIREMENTS OF REFERENCES ABOVE.
IV. TESTING EQUIPMENT SHALL BE CALIBRATED AT REASONABLE INTERVALS BY DEVICES OF ACCURACY TRACEABLE TO EITHER THE NATIONAL BUREAU OF STANDARDS, OR TO ACCEPTED VALUES OF NATURAL PHYSICAL CONSTANTS.
B. SPECIAL INSPECTOR (SI) – THE SPECIAL INSPECTOR SHALL BE UNDER THE DIRECT SUPERVISION OF A REGISTERED CIVIL/STRUCTURAL ENGINEER, EXPERIENCED WITH THE TYPE OF WORK REQUIRING STRUCTURAL TESTING AND SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND STRUCTURAL ENGINEER-OF-RECORD.
C. ACCORDING TO IBC 2009 SECTION 1704.1, THE SER IS PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK. DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.
7. REPORTS:
A. TESTING AGENCY AND/OR SPECIAL INSPECTORS SHALL SUBMIT REPORTS IN ACCORDANCE WITH THE STRUCTURAL TESTING AND SPECIAL INSPECTION SUMMARY SCHEDULE AND SHALL CONDUCT AND INTERPRET TESTS AND INSPECTIONS AND STATE IN EACH REPORT WHETHER:
I. TEST SPECIMENS AND OBSERVATIONS COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS, AND SPECIFICALLY STATE ANY DEVIATIONS.
II. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK.
III. RECORD WORK REQUIRED AND PERFORMED, TO CORRECT DEFICIENCIES.
B. REPORTS FOR STRUCTURAL TESTING AND SPECIAL INSPECTION SHALL BE SUBMITTED IN TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIAL, SER AND ARCHITECT OF RECORD.
C. SUBMIT REPORTS FOR ONGOING WORK, TO PROVIDE THE INFORMATION NOTED BELOW:
DATE ISSUED
PROJECT TITLE AND NUMBER
FIRM NAME AND ADDRESS
NAME AND SIGNATURE OF TESTOR AND/OR INSPECTOR
DATE AND TIME OF MATERIAL SAMPLING
DATE OF TEST OR INSPECTION
IDENTIFICATION OF PRODUCT AND SPECIFICATION SECTION
LOCATION IN PROJECT, INCLUDING ELEVATIONS, GRID LOCATION AND DETAIL
TYPE OF TEST AND/OR INSPECTIONS
RESULTS OF TESTS AND/OR INSPECTIONS, AND INTERPRETATION OF SAME
OBSERVATIONS REGARDING COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS OR DEVIATIONS THERE FROM
II. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND SER PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
D. REPORTS FOR CONVENTIONAL TESTING AND INSPECTION SHALL BE SUBMITTED IN A TIMELY MANNER TO THE CONTRACTOR AND THE ARCHITECT OF RECORD.
E. REFER TO APPROVED CONSTRUCTION SPECIFICATIONS FOR CONVENTIONAL TESTING AND INSPECTION REQUIREMENTS.
F. RETESTING OF MATERIALS FAILING TO COMPLY WITH SPECIFIED REQUIREMENTS SHALL BE DONE AT CONTRACTOR'S EXPENSE.
G. EXEMPTIONS: SPECIAL INSPECTION IS NOT REQUIRED FOR THE FOLLOWING:
A. WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL.
B. BUILDING COMPONENTS UNLESS THE DESIGN INVOLVES THE PRACTICE OF PROFESSIONAL ENGINEER OR ARCHITECTURE AS DEFINED BY APPLICABLE STATE STATUTES AND REGULATIONS GOVERNING THE PROFESSIONAL REGISTRATION AND CERTIFICATION OF ENGINEERS OR ARCHITECTS.
C. UNLESS OTHERWISE REQUIRED BY BUILDING OFFICIAL, GROUP U OCCUPANCIES THAT ARE ACCESSORY TO A RESIDENTIAL OCCUPANCY INCLUDING, BUT NOT LIMITED TO, THOSE LISTED IN IBC 2009 SECTION 312.1.

SPECIAL INSPECTION - CAST-IN-PLACE CONCRETE IBC 2009 SECTION 1704.4

1. EXEMPTIONS: SPECIAL INSPECTION IS NOT REQUIRED FOR THE FOLLOWING ITEMS:
A. ISOLATED SPREAD FOOTINGS OF BUILDINGS THREE STORES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK, WHERE THE FOOTINGS SUPPORT WALLS OF LIGHT FRAME CONSTRUCTION, THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH IBC 2009 TABLE 1809.7, OR THE FOOTING STRUCTURAL DESIGN IS BASED ON CONCRETE COMPRESSIVE STRENGTH NOT GREATER THAN 2500 PSI.
C. NON-STRUCTURAL CONCRETE SLABS ON-GRADE, INCLUDING PRESTRESSED SLABS ON GRADE WHEN EFFECTIVE PRESTRESS IN CONCRETE IS LESS THAN 150 PSI.
D. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH IBC 2009 TABLE 1807.1.6.2.
E. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE.
2. QUALIFICATIONS:
A. SPECIAL INSPECTOR – TECHNICAL
I. TECHNICAL I: A/C CERTIFIED GRADE II INSPECTOR. INSPECTOR SHALL BE EMPLOYED BY A TESTING LABORATORY, UNDER THE DIRECT SUPERVISION OF A TECHNICAL III.
II. TECHNICAL II: A/C CERTIFIED GRADE II INSPECTOR. INSPECTOR SHALL BE EMPLOYED BY A TESTING LABORATORY, UNDER THE DIRECT SUPERVISION OF A TECHNICAL III.
III. TECHNICAL III: A CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THIS TYPE OF WORK, WITH A MINIMUM OF 4 YEARS EXPERIENCE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND IS AN EMPLOYEE OF A QUALIFIED AND APPROVED TESTING LABORATORY. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL REPORTS.
B. TESTING LABORATORY SHALL HAVE C.C.R.L. CERTIFICATION AT THE NATIONAL BUREAU OF STANDARDS.
C. SPECIAL INSPECTOR – STRUCTURAL
I. STRUCTURAL I: GRADUATE CIVIL/STRUCTURAL ENGINEER, OR OTHER PERSONNEL ACCEPTABLE TO THE SER, WITH EXPERIENCE IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE. INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL II.
II. STRUCTURAL II: CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL INSPECTION REPORTS.
STRUCTURAL INSPECTOR – STRUCTURAL MAY BE BY INDEPENDENT TESTING AGENCY, SER, OR SER REPRESENTATIVE WITH DIRECT SUPERVISION BY SER.

SPECIAL INSPECTION - CAST-IN-PLACE CONCRETE IBC 2009 SECTION 1704.4

	DESCRIPTION	PERFORMED BY	FREQUENCY	OWNER EMPLOY	CONTRACTOR EMPLOY	COMMENTS
1.	OBSERVE ERECTED FORM WORK, SHORING AND BRACING TO ENSURE THAT WORK IS IN ACCORDANCE WITH FORM WORK DESIGN AND SHOP DRAWINGS. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. PER ACI 308 SECTION 6.1.1.	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
2.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO POST-TENSIONING AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS PER ACI 318 SECTION 6.2.	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	LAB CURED SPECIMENS ACCEPTABLE, SEE TECHNICAL SPECIFICATION FOR QUALITY REQUIREMENTS
3.	INSPECTION REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS, AND PLACEMENT PER ACI 318 SECTION 3.5, 7.1-7.7	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
a.	VERIFY REINFORCING BAR GRADE	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
b.	INSPECTION OF PLACEMENT OF REINFORCING STEEL AND PRESTRESSING TENDONS FOR SIZE, SPACING, CLEARANCES	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
c.	VERIFY PLACED REINFORCING STEEL IS FREE OF DIRT, EXCESSIVE RUST AND DAMAGE	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
d.	VERIFY PLACED REINFORCING STEEL IS ADEQUATELY TIED, CHAIRED AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
e.	VERIFY BAR LAPS FOR PROPER LENGTH AND STAGGER, AND BAR BENDS FOR MINIMUM DIAMETER, SLOPE AND LENGTH	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
4.	INSPECTION OF REINFORCING STEEL WELDING (SEE STRUCTURAL STEEL WELDING NOTES)	SEE STRUCTURAL STEEL FRAMING	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
5.	INSPECT ANCHOR BOLTS INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT PER ACI 318 SECTION 3.8.6, 8.1.3, AND 21.2.8	SPECIAL INSPECTOR - STRUCTURAL I	CONTINUOUS		X	
6.	VERIFY USE OF REQUIRED DESIGN MIX	SPECIAL INSPECTION - TECHNICAL I	PERIODIC		X	SEE TECHNICAL SPECIFICATION FOR FIELD QUALITY AND LAB REQUIREMENTS
7.	FIELD QUALITY CONTROL OF FRESH CONCRETE DURING PLACEMENT	SPECIAL INSPECTION - TECHNICAL I	PER TECHNICAL SPEC.		X	SEE TECHNICAL SPECIFICATION FOR FIELD QUALITY REQUIREMENTS
8.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER INSTALLATION PER ACI 318 SECTION 5.9 AND 5.10	SPECIAL INSPECTOR - STRUCTURAL I	CONTINUOUS		X	
9.	OBSERVE PROTECTION AND CURING OF FRESH CONCRETE	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
10.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES PER ACI 318 SECTION 11.1-11.3	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
11.	INSPECTION OF PRESTRESSED CONCRETE APPLICATION OF PRESTRESSING FORCES PER ACI 318 SECTION 18.20	NOT APPLICABLE	CONTINUOUS	NOT APPLICABLE	NOT APPLICABLE	
12.	INSPECTION OF PRESTRESSED CONCRETE GROUTING OF BONDED TENDONS IN SEISMIC-FORCE-RESISTING SYSTEM PER ACI 318 SECTION 18.38.4	NOT APPLICABLE	CONTINUOUS	NOT APPLICABLE	NOT APPLICABLE	
13.	POST-INSTALLED CONCRETE MECHANICAL FASTENERS: VISUALLY INSPECT SPECIFIED SIZE, SPACING, HOLE PREPARATION, EMBEDMENT, AND LOCATION; PER ACI 318 SECTION 3.8.6, 8.1.3 AND 21.2.8	SPECIAL INSPECTION - TECHNICAL I	PERIODIC		X	

SPECIAL INSPECTION – STRUCTURAL STEEL FRAMING – IBC 2009 SECTION 1704.3

1. DEFINITIONS
A. ASNT: THE AMERICAN SOCIETY FOR NON-DESTRUCTIVE TESTING
B. NDE: NON-DESTRUCTIVE EVALUATION
C. AWS/CWI: AMERICAN WELDING SOCIETY / CERTIFIED ASSOCIATE WELD INSPECTOR
D. AWS/CWI: AMERICAN WELDING SOCIETY / CERTIFIED WELD INSPECTOR
2. QUALIFICATIONS:
A. SPECIAL INSPECTOR – GENERAL
I. THE BASIS FOR WELDING INSPECTOR QUALIFICATIONS SHALL BE AWS D1.1.
B. SPECIAL INSPECTOR – TECHNICAL
I. SHALL BE EMPLOYED BY A TESTING AGENCY AND SHALL BE SUPERVISED BY AN AWS/CWI WITH A MINIMUM OF 10 YEARS EXPERIENCE OR AN ASNT LEVEL II WITH A MINIMUM OF 10 YEARS EXPERIENCE. THESE INDIVIDUALS SHALL SATISFY THE FOLLOWING REQUIREMENTS:
TECHNICAL I: NON-DESTRUCTIVE TESTING TECHNICIAN ASNT TC-1A LEVEL I, AND/OR AWS CERTIFIED ASSOCIATE WELD INSPECTOR (CAWI).
TECHNICAL II: NON-DESTRUCTIVE TESTING TECHNICIAN ASNT TC-1A LEVEL II, (NDE TECHNICIAN II), AWS/CWI, WITH MINIMUM 3 YEARS EXPERIENCE, OR AN AWS/CWI.
TECHNICAL III: ASNT LEVEL III WITH A MINIMUM OF 10 YEARS EXPERIENCE OR AN AWS/CWI WITH A MINIMUM OF 10 YEARS EXPERIENCE.
C. SPECIAL INSPECTOR – STRUCTURAL
I. STRUCTURAL I: GRADUATE CIVIL/STRUCTURAL ENGINEER, OR OTHER PERSONNEL ACCEPTABLE TO THE SER, WITH EXPERIENCE IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE. INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL II.
II. STRUCTURAL II: CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL INSPECTION REPORTS.
III. STRUCTURAL INSPECTOR – STRUCTURAL MAY BE BY INDEPENDENT TESTING AGENCY, SER, OR SER REPRESENTATIVE WITH DIRECT SUPERVISION BY SER.
3. FABRICATION:
A. APPROVED FABRICATORS: POSSES PRIOR APPROVAL IN ACCORDANCE WITH IBC 2009 SECTION 1704.2.2.
I. UPON COMPLETION OF FABRICATION, THE STRUCTURAL STEEL APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS, APPROVED SHOP DRAWINGS AND DESIGN AND AISC STANDARD SPECIFICATION.
B. ALL OTHER FABRICATORS
I. FABRICATOR TO ENGAGE A QUALIFIED INDEPENDENT SPECIAL INSPECTOR TO PERFORM INSPECTIONS INDICATED BELOW. SPECIAL INSPECTOR TO PREPARE REPORT AND SUBMIT TO BUILDING OFFICIAL. PAYMENT FOR THESE SERVICES WILL BE MADE BY THE FABRICATOR.
II. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. CONDUCTED BY SPECIAL INSPECTOR – STRUCTURAL I.
C. EXEMPTION: SPECIAL INSPECTION OF THE STRUCTURAL STEEL FABRICATION PROCESS SHALL NOT BE REQUIRED WHERE THE FABRICATOR DOES NOT PERFORM ANY WELDING, THERMAL CUTTING OR HEATING OPERATION OF ANY KIND AS PART OF THE FABRICATION PROCESS. IN SUCH CASES, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN SUITABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION, GRADE AND MILL TEST REPORTS FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED.

	DESCRIPTION	PERFORMED BY	FREQUENCY	OWNER EMPLOY	CONTRACTOR EMPLOY	COMMENTS
1.	HIGH STRENGTH BOLTING (FIELD INSTALLED)					
a.	VERIFY MATERIAL CONFORMS TO SPECIFIED ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. REFER TO ASTM MATERIAL SPECIFICATIONS AND AISC 360, SECTN. A3.3	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
b.	VERIFY MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
c.	VISUALLY INSPECT MATING SURFACES AND BOLT TYPE FOR ALL SLIP-CRITICAL BOLTED CONNECTIONS FOR GENERAL CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS PRIOR TO BOLTING	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
d.	VERIFY THAT THE REQUIREMENTS FOR BOLTS, NUTS, WASHERS, PAINT AND INSTALLATION/TIGHTENING STANDARDS ARE MET	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
e.	OBSERVE CALIBRATION PROCEDURES ARE REQUIRED BY THE INSTALLATION METHOD OR IN THE APPROVED CONSTRUCTION DOCUMENTS	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	
f.	SLIP CRITICAL BOLTS AND TENSION BOLTS					
i.	VERIFY THAT SELECTED PROCEDURE IS USED TO TIGHTEN BOLTS	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	NOT APPLICABLE
ii.	MONITOR BOLT INSTALLATION WHEN THE CALIBRATED WRENCH METHOD OR TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING IS USED PER AISC 360 SECTION M2.5	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	NOT APPLICABLE
iii.	MONITOR BOLT INSTALLATION IF THE TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR, OR "TWIST OFF BOLT" METHODS ARE USED PER AISC 360 SECTION M2.5. VISUALLY VERIFY TIGHTENING OF ALL BOLTS	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	NOT APPLICABLE
iv.	VISUALLY INSPECT TO VERIFY ALL PLIES OF CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO CONTACT, AT 100% OF CONNECTIONS	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	NOT APPLICABLE
v.	VISUALLY INSPECT TO VERIFY ALL TIPS ARE REMOVED FROM "TWIST OFF BOLTS"	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	NOT APPLICABLE
g.	BEARING-TYPE BOLTS (TYPE N OR X)					
i.	VISUALLY INSPECT TO VERIFY ALL PLIES OF CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO CONTACT	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
ii.	INSPECT BEARING-TYPE CONNECTIONS IN ACCORDANCE WITH AISC 360 SECTION M2.5	SPECIAL INSPECTION - TECHNICAL II			X	
h.	MISCELLANEOUS METALS, INSERTS AND PREFABRICATED COMPONENTS				X	
i.	WHERE INTEGRITY OF THE CONNECTIONS IMPACT LIFE SAFETY OR PERFORMANCE OF THE BUILDING STRUCTURE, PROVIDE TESTING AND INSPECTION AS FOR TYPICAL FIELD BOLT CONNECTIONS				X	
j.	HIGH STRENGTH BOLTING (SHOP INSTALLED)					
a.	FOR SHOP FABRICATED WORK, PERFORM TESTS REQUIRED FOR FIELD INSTALLATION SPECIFIED ABOVE. EXCEPT THAT BOLT TESTING MAY BE REDUCED OR DELETED, IF FABRICATION SHOP SATISFIES AISC QUALITY CERTIFICATION PROGRAM – CATEGORY I, OR MORE STRINGENT CRITERIA, OR IS APPROVED BY BUILDING OFFICIAL AND SER	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
3.	WELDING (GENERAL)					
a.	PRIOR TO START OF FABRICATION, DETERMINE IF FABRICATION SHOP MEETS THE CRITERIA FOR EXEMPTING SHOP WELDS FROM INSPECTION AND CONFIRM IN WRITING TO BUILDING OFFICIAL AND SER	SPECIAL INSPECTION - TECHNICAL II	PRIOR TO FABRICATION		X	
b.	PRIOR TO START OF FABRICATION, VERIFY QUALIFICATIONS OF ALL WELDERS AS AWS CERTIFIED		PRIOR TO FABRICATION		X	
c.	PRIOR TO START OF FABRICATION, VERIFY MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIALS		PRIOR TO FABRICATION		X	
d.	PRIOR TO START OF FABRICATION, VERIFY PROPOSED WELDING PROCEDURES AND MATERIALS MEET AWS REQUIREMENTS		PRIOR TO FABRICATION		X	
e.	VERIFY ADEQUATE PREPARATION OF FAYING SURFACES		PERIODIC		X	
f.	VERIFY WELD FILLER MATERIAL IDENTIFICATION MARKINGS CONFORM TO AWS SPECIFICATION SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		PERIODIC		X	AWC 360 SECTION A3.5 AND APPLICABLE AWS AS DOCUMENTS
g.	VERIFY PREHEAT AND INTERPASS TEMPERATURES OF STEEL, PROPER TECHNIQUE AND SEQUENCE OF WELDING, AND CLEANING AND NUMBER OF PASSES ARE PROVIDED AS REQUIRED	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
h.	EXCEPTION: SPECIAL INSPECTION NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK. PERIODIC INSPECTIONS ARE MADE OF THE WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING: SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16 INCH IN SIZE; FLOOR AND ROOF DECK WELDING; STUD SHEAR CONNECTOR WELDS; COLD-FORMED STEEL FRAMING (JOISTS AND STUDS); WELDING OF STAIRS AND RAILING SYSTEMS	SPECIAL INSPECTION - TECHNICAL II	PERIODIC		X	
a.	WELDING (FIELD)					
i.	FILLET WELDS					
j.	VISUALLY INSPECT 10% OF TOTAL WELD LENGTH OF SINGLE-PASS FILLET WELDS 5/16 INCH OR LESS DURING INSTALLATION FOR SIZE, LENGTH, AND QUALITY, PER AWS D1.1. VISUALLY INSPECT 100% OF COMPLETED WELDS PRIOR TO COMPLETION OF WORK	SPECIAL INSPECTION - TECHNICAL II	AS NOTED		X	
ii.	INSPECT WELDING PROCESS FOR ALL MULTI-PASS FILLET WELDS AND SINGLE PASS FILLET WELDS GREATER THAN 5/16 INCH	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	
iii.	PARTIAL PENETRATION WELDS					
i.	INSPECT WELDING PROCESS FOR ALL PARTIAL PENETRATION GROOVE WELDS PER AWS D1.1	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	
ii.	TEST 100% OF ALL PARTIAL PENETRATION WELDS EXCEEDING 5/16 INCH, USING ULTRA-TESTING PER AWS D1.1	SPECIAL INSPECTION - TECHNICAL II	AS NOTED		X	
iii.	TEST 25% OF ALL PARTIAL PENETRATION WELDS LESS THAN 5/16 INCH, USING MAGNETIC PARTICLE TESTING PER ASTM E109, PERFORMED ON ROOT PASS AND ON FINISHED WELD	SPECIAL INSPECTION - TECHNICAL II	AS NOTED		X	
c.	FULL PENETRATION WELDS					
i.	INSPECT WELDING PROCESS FOR ALL FULL PENETRATION GROOVE WELDS, PER AWS D1.1	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	
ii.	TEST 100% OF ALL FULL PENETRATION WELDS EXCEEDING 5/16 INCH, USING ULTRA-TESTING PER AWS D1.1	SPECIAL INSPECTION - TECHNICAL II	AS NOTED		X	
iii.	TEST 25% OF ALL FULL PENETRATION WELDS LESS THAN 5/16 INCH, USING MAGNETIC PARTICLE TESTING PER ASTM E109, PERFORMED ON ROOT PASS AND ON FINISHED WELD	SPECIAL INSPECTION - TECHNICAL II	AS NOTED		X	

SPECIAL INSPECTION - STRUCTURAL STEEL FRAMING IBC 2009 SECTION 1704.3

	DESCRIPTION	PERFORMED BY	FREQUENCY	OWNER EMPLOY	CONTRACTOR EMPLOY	COMMENTS
d.	PLUG AND SLOT WELDS					
i.	INSPECT WELDING PROCESS FOR ALL PLUG AND SLOT WELDS	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS		X	
e.	STUD SHEAR CONNECTOR WELDS					
i.	VISUALLY INSPECT 100% OF INSTALLED STUDS FOR FULL 360 DEGREE FLASH TEST ALL QUESTIONABLE STUDS, NOT SHOWING FULL 360 DEGREE FLASH BY BENDING STUDS TO 15 DEGREES FROM VERTICAL, AWAY FROM WELD DISCONTINUITY, PER AWS D1.1	SPECIAL INSPECTION - TECHNICAL I	AS NOTED		X	
ii.	RANDOMLY TEST ALL OTHER STUDS BY BENDING TO 15 DEGREES FROM VERTICAL AS NOTED: STUDS WELDED THRU DECK 15%; STUDS WELDED TO BARE STEEL 5%; ALTERNATIVELY, SOUND 100% OF INSTALLED STUDS, FOR FULL PENETRATION WELD, USING AN 8 POUND MALL. TEST QUESTIONABLE STUDS AS NOTED ABOVE	SPECIAL INSPECTION - TECHNICAL I	AS NOTED		X	
iii.	VERIFY ALL WELDING FERRULES HAVE BEEN REMOVED	SPECIAL INSPECTION - TECHNICAL I	AS NOTED		X	
f.	STEEL JOIST/JOIST GIRDER WELDS					
i.	PROVIDE TESTING AND INSPECTION FOR FIELD WELDS SPECIFIED ABOVE					
ii.	METAL DECK WELDS					
j.	VISUALLY INSPECT 10% OF TOTAL PUDDLE WELDS ON METAL DECK DESIGNED AS A STRUCTURAL ELEMENT DURING INSTALLATION FOR SIZE, LOCATION, LENGTH AND THICKNESS. FOR WORK DESIGNED AS A STRUCTURAL ELEMENT, VISUALLY INSPECT 100% OF COMPLETED WELDS PRIOR TO COMPLETION OF WORK	SPECIAL INSPECTION - TECHNICAL I	PERIODIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
h.	COLD FORMED METAL FRAMING WELDS					
i.	VISUALLY INSPECT 10% OF WELDS DURING INSTALLATION FOR SIZE, AND CONTINUITY IN ACCORDANCE WITH AWS D1.3 FOR METAL LESS THAN 1/8 INCH THICKNESS. FOR WORK DESIGNED AS A STRUCTURAL ELEMENT, VISUALLY INSPECT 100% OF COMPLETED WELDS PRIOR TO COMPLETION OF WORK	SPECIAL INSPECTION - TECHNICAL I	AS NOTED		X	
i.	WELDING OF REINFORCING BARS					
ii.	VISUALLY INSPECT 100% OF ALL REINFORCING BAR WELDS AS THE WELDING IS PERFORMED, PER AWS D1.4 AND AISC 318 SECTION 3.5.2	SPECIAL INSPECTION - TECHNICAL II	CONTINUOUS	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
iii.	PRIOR TO WELDING, VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	SPECIAL INSPECTION - TECHNICAL II	PRIOR TO WELDING	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
iii.	PRIOR TO WELDING, VERIFY PROPER JOINT PREPARATION IS PROVIDED AND PROPER ELECTRODES ARE USED AND PROPERLY STORED AND DRIED	SPECIAL INSPECTION - TECHNICAL II	PRIOR TO WELDING	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
j.	MISCELLANEOUS METALS, INSERTS AND PREFABRICATED COMPONENTS					
i.	WHERE INTEGRITY OF THE CONNECTIONS IMPACT LIFE SAFETY OR PERFORMANCE OF THE BUILDING STRUCTURE, PROVIDE TESTING AND INSPECTION AS FOR TYPICAL WELDS SPECIFIED ABOVE					
5.	WELDING (SHOP)					
a.	PERFORM AS SPECIFIED FOR FIELD WELDING ABOVE, EXCEPT WELD TESTING MAY BE REDUCED OR DELETED, IF FABRICATION SHOP SATISFIES AISC QUALITY CERTIFICATION PROGRAM – CATEGORY I, OR MORE STRINGENT CRITERIA, AND IS APPROVED BY BUILDING OFFICIAL AND SER	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
6.	STRUCTURAL CONFIGURATION					
a.	SUBMITTALS: VERIFY MANUFACTURER'S CERTIFIED MILL TEST REPORTS AND OTHER SUBMITTED DOCUMENTATION, FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH ASTM A6 OR ASTM A568	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
b.	MATERIALS: VERIFY IDENTIFICATION MARKINGS OF STRUCTURAL STEEL MATERIALS DELIVERED TO SITE COMPLY WITH AISC 360 SECTION M5.5 AND CONFORM TO APPROVED CONSTRUCTION DOCUMENTS. MATERIALS INCLUDE STRUCTURAL STEEL, BOLTS, NUTS, WASHERS, ELECTRODES, STEEL DECK GAGE	SPECIAL INSPECTION - TECHNICAL I	PERIODIC		X	
c.	MATERIALS: VERIFY IDENTIFICATION MARKINGS OF ALL OTHER STEEL DELIVERED TO SITE CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	SPECIAL INSPECTION - TECHNICAL I	PERIODIC		X	
d.	DETAIL COMPATIBILITY					
i.	REVIEW PROJECT DOCUMENTS AFFECTING INTEGRITY OF THE STRUCTURE, INCLUDING APPROVED CONSTRUCTION DOCUMENTS AND PERTINENT SUBMITTALS (APPROVED SHOP DRAWINGS)	SPECIAL INSPECTOR - STRUCTURAL I	AS NOTED		X	
ii.	VISIT SITE, AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION, TO PERFORM REVIEW OF THE STRUCTURE AND VISUALLY CONFIRM GENERAL COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
iii.	INSPECT THE FOLLOWING TO VERIFY MEMBER LOCATION, ORIENTATION, CONFIGURATION, TYPE, AND SIZE COMPLY WITH DETAILS INDICATED ON THE APPROVED CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS. SUSPECTIBLE CONNECTIONS MAY RECEIVE TESTING: MOMENT FRAMES AND CROSS BRACING WELD CONNECTIONS; MOMENT FRAMES AND CROSS BRACING BOLT CONNECTIONS. PERFORM AS SPECIFIED FOR BOLT CONNECTIONS ABOVE	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	
iv.	VISUALLY INSPECT 100% OF MAIN-WIND-FORCE-RESISTANCE SYSTEM CONNECTIONS TO CONFIRM CONFORMANCE WITH DETAILS INDICATED ON THE APPROVED CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS. SUSPECTIBLE CONNECTIONS MAY RECEIVE TESTING: MOMENT FRAMES AND CROSS BRACING WELD CONNECTIONS; MOMENT FRAMES AND CROSS BRACING BOLT CONNECTIONS. PERFORM AS SPECIFIED FOR BOLT CONNECTIONS ABOVE	SPECIAL INSPECTOR - STRUCTURAL II	AS NOTED		X	

CONSTRUCTION DOCUMENTS 100%

1. SPECIAL INSPECTIONS ARE REQUIRED FOR ALL EARTH WORK INDICATED BELOW, EXCEPT DURING PLACEMENT OF CONTROLLED FILL HAVING A TOTAL DEPTH OF 12 INCHES OR LESS.

2. QUALIFICATIONS:

a. SPECIAL INSPECTOR – TECHNICAL

i. TECHNICAL I: TECHNICIAN SHALL BE UNDER THE DIRECT SUPERVISION OF A TECHNICAL III. WORK SHALL BE PERFORMED IN A QUALIFIED GEOTECHNICAL/TESTING LABORATORY.

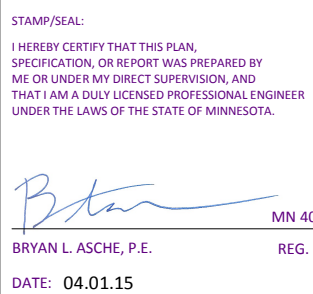
ii. TECHNICAL II: TECHNICIAN WITH A MINIMUM OF 2 YEARS EXPERIENCE, OR A GRADUATE ENGINEER, AND IS AN EMPLOYEE OF A QUALIFIED AND APPROVED GEOTECHNICAL/TESTING LABORATORY, UNDER DIRECT SUPERVISION OF A TECHNICAL III.

iii. TECHNICAL III: A CIVIL/GEOTECHNICAL ENGINEER REGULARLY ENGAGED IN THE TYPE OF WORK, WITH A MINIMUM OF 4 YEARS EXPERIENCE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, AND IS AN EMPLOYEE OF A QUALIFIED AND APPROVED GEOTECHNICAL/TESTING LABORATORY. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL FINAL FIELD REPORTS.

SPECIAL INSPECTION – MASONRY – IBC 2009 SECTION 1704.5

- SPECIAL INSPECTION – PRECAST STRUCTURAL CONCRETE – IBC 2009 SECTION 1704.2 AND 1704.7

1. **QUALIFICATIONS:**
 - a. **SPECIAL INSPECTOR – TECHNICAL**
 - i. NOT USED.
 - b. **SPECIAL INSPECTOR – STRUCTURAL**
 - i. STRUCTURAL I: GRADUATE CIVIL/STRUCTURAL ENGINEER, OR OTHER PERSONNEL ACCEPTABLE TO THE SER, WITH EXPERIENCE IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE. INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL II.
 - ii. STRUCTURAL II: CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL INSPECTION REPORTS.
 - iii. **STRUCTURAL INSPECTOR – STRUCTURAL** MAY BE BY INDEPENDENT TESTING AGENCY, SER, OR SER REPRESENTATIVE WITH DIRECT SUPERVISION BY SER.
2. **FABRICATION:**
 - a. **APPROVED FABRICATORS:** POSSESSES PRIOR APPROVAL IN ACCORDANCE WITH IBC 2009 SECTION 1704.2.2.
UPON COMPLETION OF FABRICATION, THE PRECAST APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS, APPROVED STRUCTURAL DESIGN, AC 318 AND PCI MNL 120 "PC DESIGN HANDBOOK" – PRECAST AND PRESTRESSED CONCRETE" STANDARDS SPECIFICATION.
 - b. **ALL OTHER FABRICATORS**
 - i. FABRICATOR TO ENGAGE A QUALIFIED AND PROVEN SPECIAL INSPECTOR TO PERFORM INSPECTIONS INDICATED BELOW. SPECIAL INSPECTOR TO PREPARE REPORT AND SUBMIT TO BUILDING OFFICIAL. PAYMENT FOR THESE SERVICES WILL BE MADE BY THE FABRICATOR. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. CONDUCTED BY SPECIAL INSPECTOR – STRUCTURAL I.



CONSTRUCTION DOCUMENTS 100%

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F

SPECIAL INSPECTION - ROUGH CARPENRY IBC 2009 SECTION 1704.2 AND 1704.6

1. QUALIFICATIONS:

a. SPECIAL INSPECTOR – TECHNICAL

i. TECHNICAL I: TECHNICIAN SHALL BE UNDER THE DIRECT SUPERVISION OF A TECHNICAL III. WORK SHALL BE PERFORMED IN A QUALIFIED TESTING LABORATORY.

ii. TECHNICAL II: TECHNICIAN WITH A MINIMUM OF 2 YEARS EXPERIENCE, OR A GRADUATE ENGINEER, AND IS AN EMPLOYEE OF A QUALIFIED TESTING LABORATORY, UNDER THE DIRECT SUPERVISION OF A TECHNICAL III.

iii. TECHNICAL III: AN ENGINEER REGULARLY ENGAGED IN THIS TYPE OF WORK WITH A MINIMUM OF 4 YEARS EXPERIENCE, AND IS AN EMPLOYEE OF A QUALIFIED AND APPROVED TESTING LABORATORY. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL REPORTS.

b. SPECIAL INSPECTOR – STRUCTURAL

i. STRUCTURAL I: GRADUATE CIVIL/STRUCTURAL ENGINEER, OR OTHER PERSONNEL ACCEPTABLE TO THE SER, WITH EXPERIENCE IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE. INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL II.

ii. STRUCTURAL II: CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL INSPECTION REPORTS.

iii. STRUCTURAL INSPECTOR – STRUCTURAL MAY BE BY INDEPENDENT TESTING AGENCY, SER, OR SER REPRESENTATIVE WITH DIRECT SUPERVISION BY SER.
2. FABRICATION:

a. APPROVED FABRICATORS: POSSES PRIOR APPROVAL IN ACCORDANCE WITH IBC 2009 SECTION 1704.2.2

i. UPON COMPLETION OF FABRICATION, THE PREFABRICATED WOOD JOIST APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS, APPROVED STRUCTURAL DESIGN AND ASTM D5055 STANDARD SPECIFICATION.

b. ALL OTHER FABRICATORS

i. FABRICATOR TO ENGAGE A QUALIFIED INDEPENDENT SPECIAL INSPECTOR TO PERFORM INSPECTIONS INDICATED BELOW. SPECIAL INSPECTOR TO PREPARE REPORT AND SUBMIT TO BUILDING OFFICIAL. PAYMENT FOR THESE SERVICES WILL BE MADE BY THE FABRICATOR.

ii. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. CONDUCTED BY SPECIAL INSPECTOR – STRUCTURAL I.

SPECIAL INSPECTION - ROUGH CARPENRY IBC 2009 SECTION 1704.2 AND 1704.6						
	DESCRIPTION	PERFORMED BY	FREQUENCY	OWNER EMPLOY	CONTRACTOR EMPLOY	COMMENTS
1.	FABRICATOR IS RESPONSIBLE FOR PROVIDING SPECIAL INSPECTION DURING FABRICATION. SEE REQUIREMENTS IDENTIFIED IN GENERAL NOTES ABOVE	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC			FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
2.	FABRICATOR TO COMPLY WITH MINIMUM STANDARDS AND QUALITY FOR PREFABRICATED WOOD JOISTS PER IBC 2009, SECTION 2303.1.2					FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
3.	FABRICATOR TO COMPLY WITH MINIMUM STANDARDS AND QUALITY FOR STRUCTURAL COMPOSITE LUMBER PER IBC 2009, SECTION 2303.1.9					FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
4.	PRIOR TO CONSTRUCTION, TEST JOIST HANGERS PER ASTM D1761 AND IBC 2009, SECTION 1716.1					FABRICATOR IS RESPONSIBLE FOR THESE SERVICES
5.	VERIFY ONSITE INSTALLATION CONFORMS TO APPROVED CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC		X	

SPECIAL INSPECTION - SHEATHING IBC 2009 SECTION 1704.6

1. QUALIFICATIONS:

a. SPECIAL INSPECTOR – TECHNICAL

i. NOT USED.

b. SPECIAL INSPECTOR – STRUCTURAL

i. STRUCTURAL I: GRADUATE CIVIL/STRUCTURAL ENGINEER, OR OTHER PERSONNEL ACCEPTABLE TO THE SER, WITH EXPERIENCE IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE. INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL II.

ii. STRUCTURAL II: CIVIL/STRUCTURAL ENGINEER REGULARLY ENGAGED IN THE DESIGN OF STRUCTURAL SYSTEMS OF THIS TYPE, LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE LICENSED ENGINEER SHALL REVIEW AND APPROVE ALL INSPECTION REPORTS.

iii. STRUCTURAL INSPECTOR – STRUCTURAL MAY BE BY INDEPENDENT TESTING AGENCY, SER, OR SER REPRESENTATIVE WITH DIRECT SUPERVISION BY SER.

SPECIAL INSPECTION - SHEATHING IBC 2009 SECTION 1704.6						
	DESCRIPTION	PERFORMED BY	FREQUENCY	OWNER EMPLOY	CONTRACTOR EMPLOY	COMMENTS
1.	VERIFY THE FOLLOWING HIGH-LOAD DIAPHRAGM CONFORMS TO CONTRACT DOCUMENTS					APPLICABLE TO HIGH-LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE TO IBC 2009, TABLE 2306.2.1(2)
a.	VERIFY SHEATHING GRADE AND THICKNESS COMPLIES WITH APPROVED CONSTRUCTION DOCUMENTS	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
b.	VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
c.	VERIFY FASTENER TYPE AND SPACING REQUIREMENTS	SPECIAL INSPECTOR - STRUCTURAL I	PERIODIC	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

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Brian L. Aschke
BRIAN L. ASCHKE, P.E.
DATE: 04.01.15
REV. NO.

DRAWING TITLE
SPECIAL INSPECTIONS PROGRAMS

PROJECT TITLE
CONSTRUCT NEW IT CENTER FOR HEALTHCARE TECHNOLOGY MANAGEMENT EXPANSION

DATE
04.01.15
PROJECT NO.
656-14-246

BUILDING No. BA
DRAWN
AW

LOCATION
VA MEDICAL CENTER ST. CLOUD, MN 56303

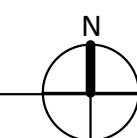
DRAWING NO.
S022
SHEET 2 OF XX



FOOTING NOTES

1. CENTER FOOTINGS UNDER FOUNDATION UNLESS DIMENSIONED OTHERWISE
2. SPACE REINFORCEMENT UNIFORMLY ACROSS FOOTING
3. PLACE REINFORCEMENT 3" CLEAR FROM BOTTOM OF FOOTING EXCEPT WHERE DIMENSIONED OTHERWISE
4. RE- SPECIFIC SECTIONS FOR FOOTINGS NOT INCLUDED IN SCHEDULE
5. SEE PLAN VIEW 3/5400 FOR TRANSVERSE REBAR PLACEMENT LAYOUT

1. CENTER FOOTINGS UNDER FOUNDATION UNLESS DIMENSIONED OTHERWISE
2. SPACE REINFORCEMENT UNIFORMLY ACROSS FOOTING
3. PLACE REINFORCEMENT 3" CLEAR FROM BOTTOM OF FOOTING EXCEPT WHERE DIMENSIONED OTHERWISE
4. RE: SPECIFIC SECTIONS FOR FOOTINGS NOT INCLUDED IN SCHEDULE
5. SEE PLAN VIEW 3/S400 FOR TRANSVERSE REBAR PLACEMENT LAYOUT




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BRYAN L. ASCHÉ, P.E.

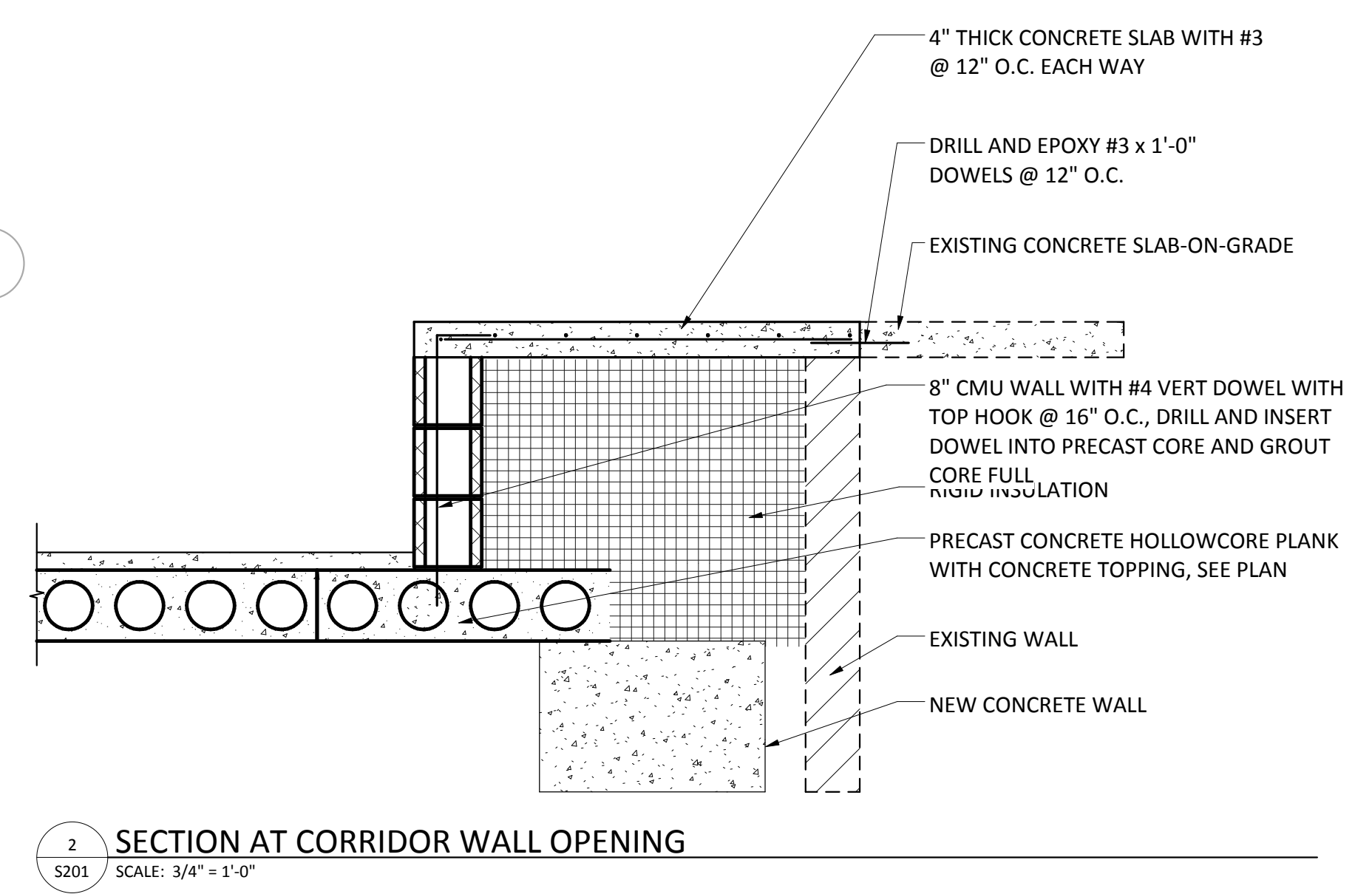
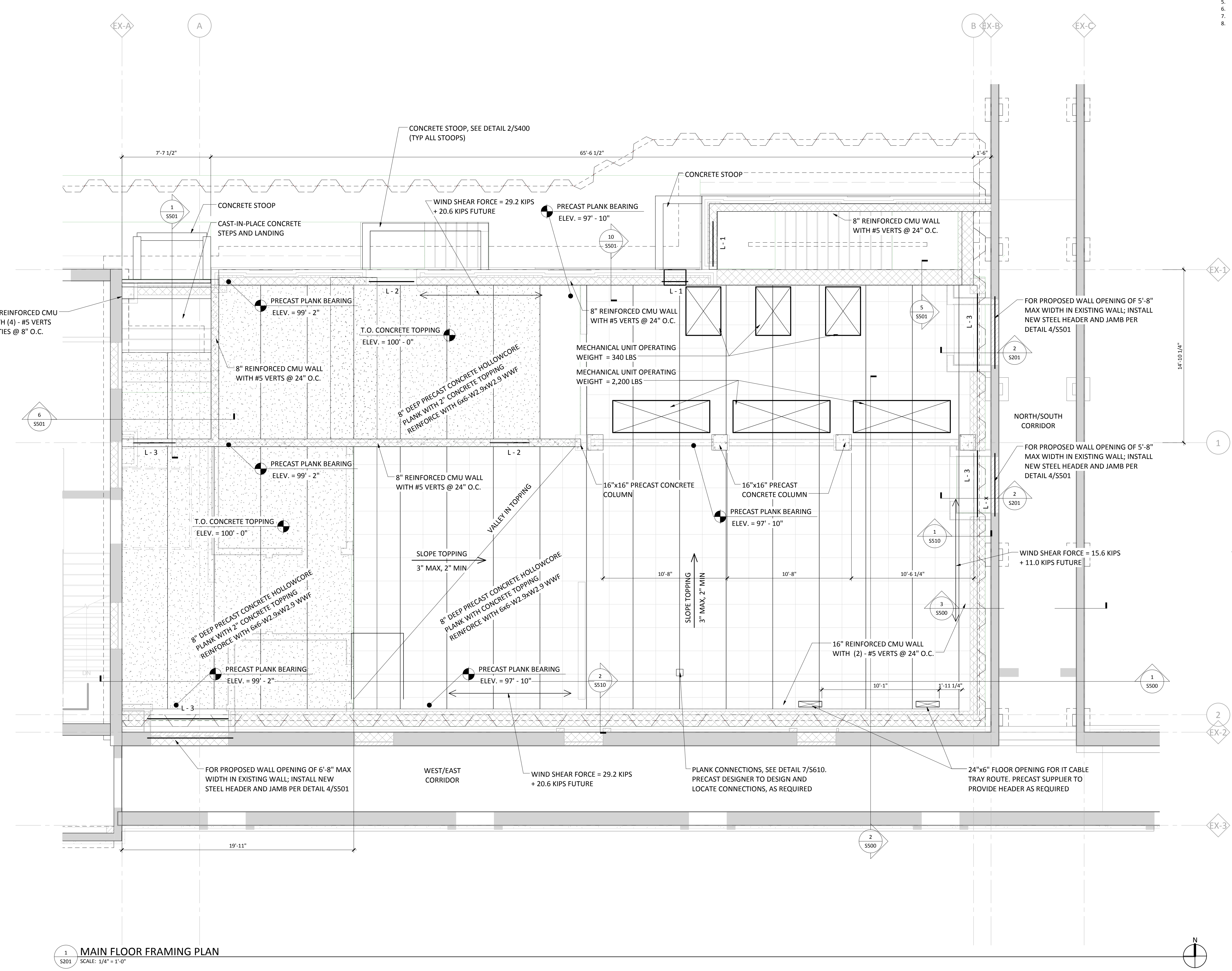
DATE: 04.01.15

DRAWING TITLE FOUNDATION PLAN	PROJECT TITLE CONSTRUCT NEW IT CENTER FOR HEALTHCARE TECHNOLOGY MANAGEMENT EXPANSION		DATE 04.01.15
			PLOT SCALE AS NOTED
			PROJECT NO. 656-14-246
	BUILDING NO	CHECKED BY BA	DRAWN AW
			CAD FILE XXX
	LOCATION VIA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWING NO. \$200 100 OF XX	



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

- MAIN FLOOR PLAN NOTES**
1. (XX) - DENOTES STRUCTURAL KEYNOTES, SEE DRAWING S030
 2. CONTRACTOR TO VERIFY ALL DIMENSIONS, AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES; CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIALS AND CONSTRUCTION
 3. LX - DENOTES MASONRY LOAD BEARING LINTELS, SEE SCHEDULE ON DRAWING S620 FOR LINTEL REQUIREMENTS
 4. LOOSE LINTELS FOR BRICK VENEER, SEE DETAIL DRAWING S620
 5. FOR CONCRETE CONSTRUCTION DETAILS, SEE DRAWING S600
 6. FOR PRECAST CONSTRUCTION DETAILS, SEE DRAWING S610
 7. FOR MASONRY CONSTRUCTION DETAILS, SEE DRAWING S620
 8. PRECAST SUPPLIER TO INCORPORATE SPECIAL LOADS SPECIFIED ON DRAWING S203



1 MAIN FLOOR FRAMING PLAN
SCALE: 3/4" = 1'-0"

2 SECTION AT CORRIDOR WALL OPENING
SCALE: 3/4" = 1'-0"

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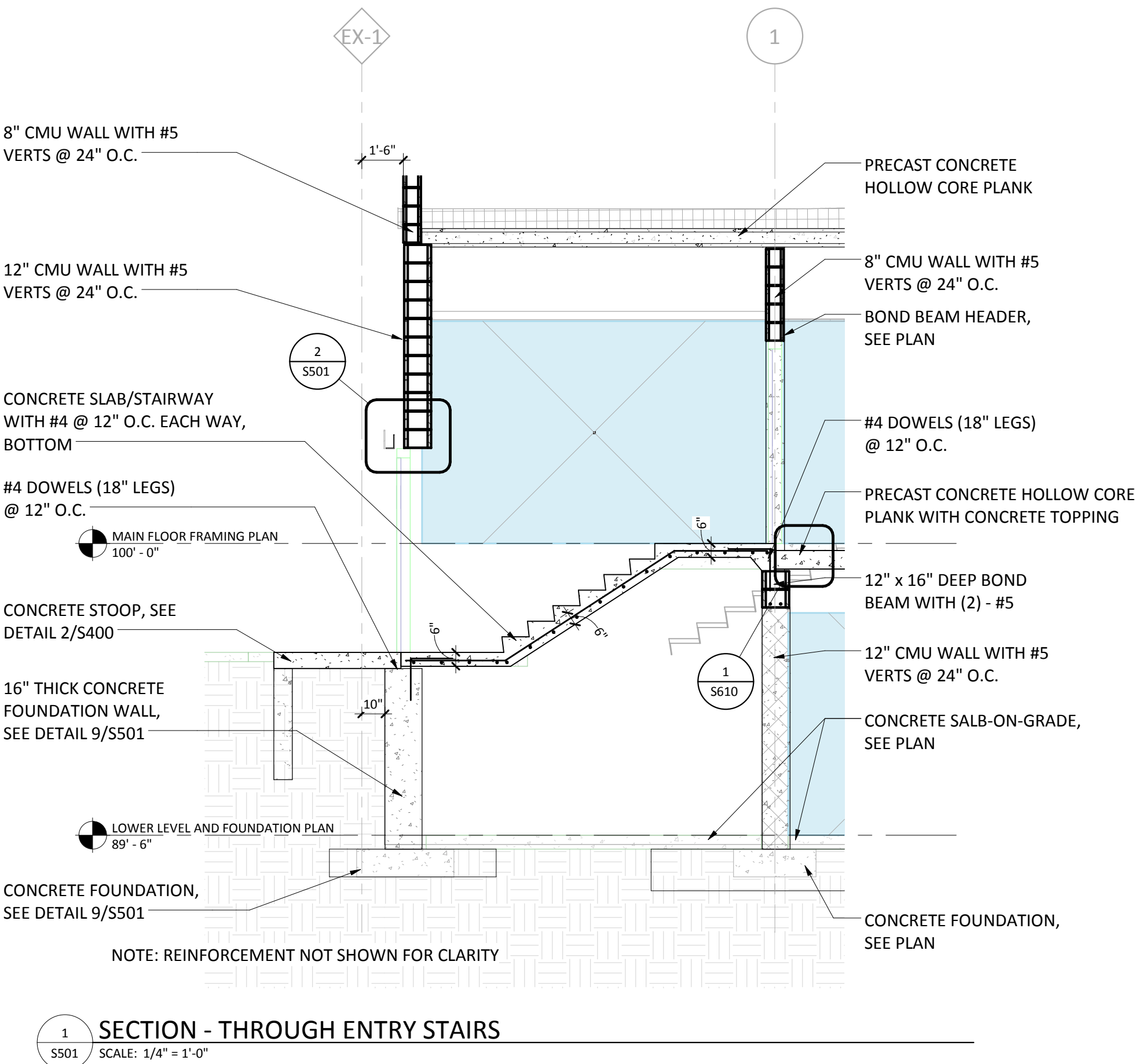
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under the laws of the State of Minnesota.
Barbara L. Aschke, P.E.
DATE: 04.01.15
BY: BLS
REV: N/A

DRAWING TITLE MAIN FLOOR FRAMING PLAN	
BUILDING No. BA	DRAWN BY AW

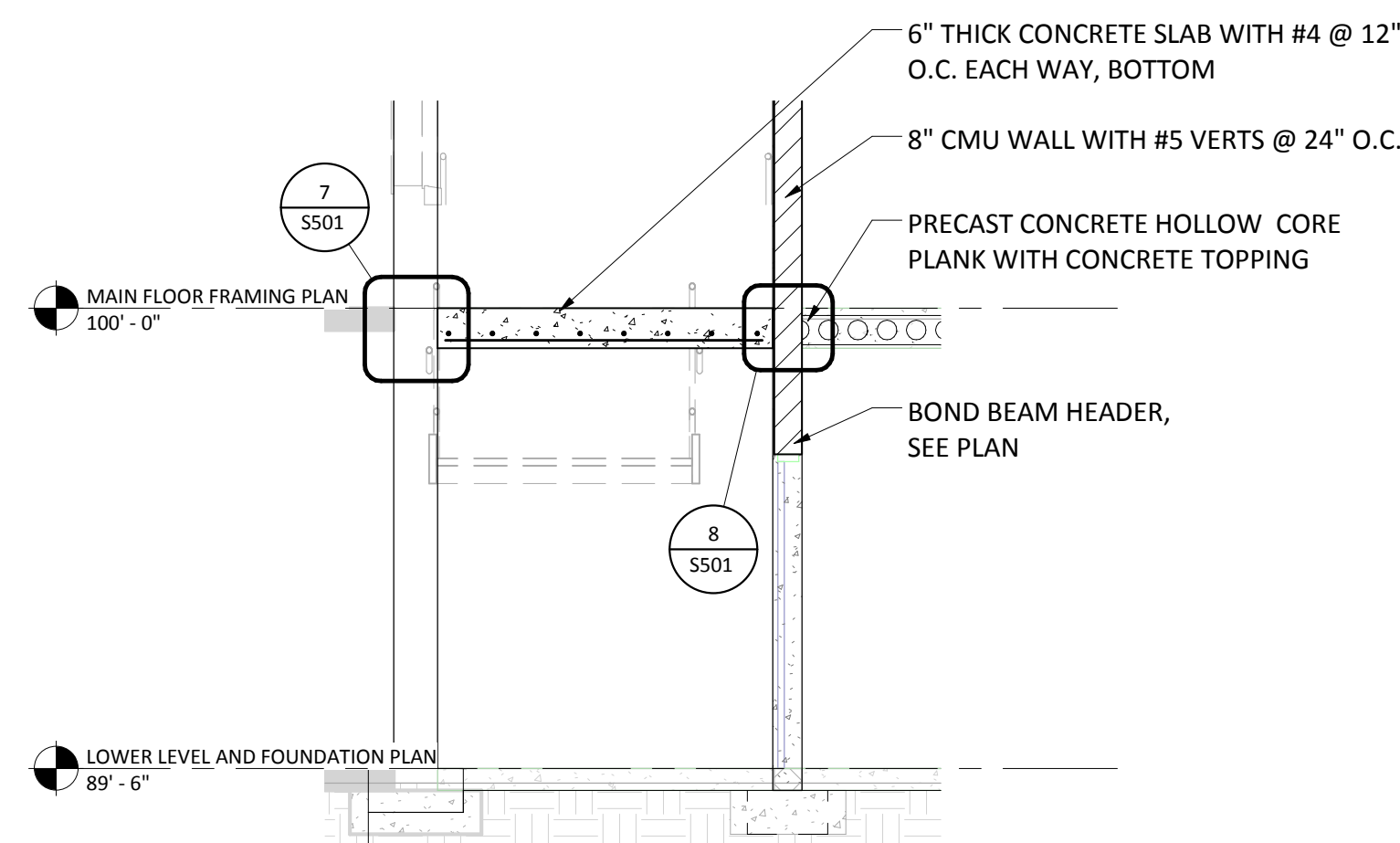
PROJECT TITLE CONSTRUCT NEW IT CENTER FOR HEALTHCARE TECHNOLOGY MANAGEMENT EXPANSION	DATE 04.01.15
PROJECT NO. 666-14246	PROJECT SCALE AS NOTED
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. NO. S201

St. Cloud VA Health Care System
Brainerd | Montevideo | Alexandria

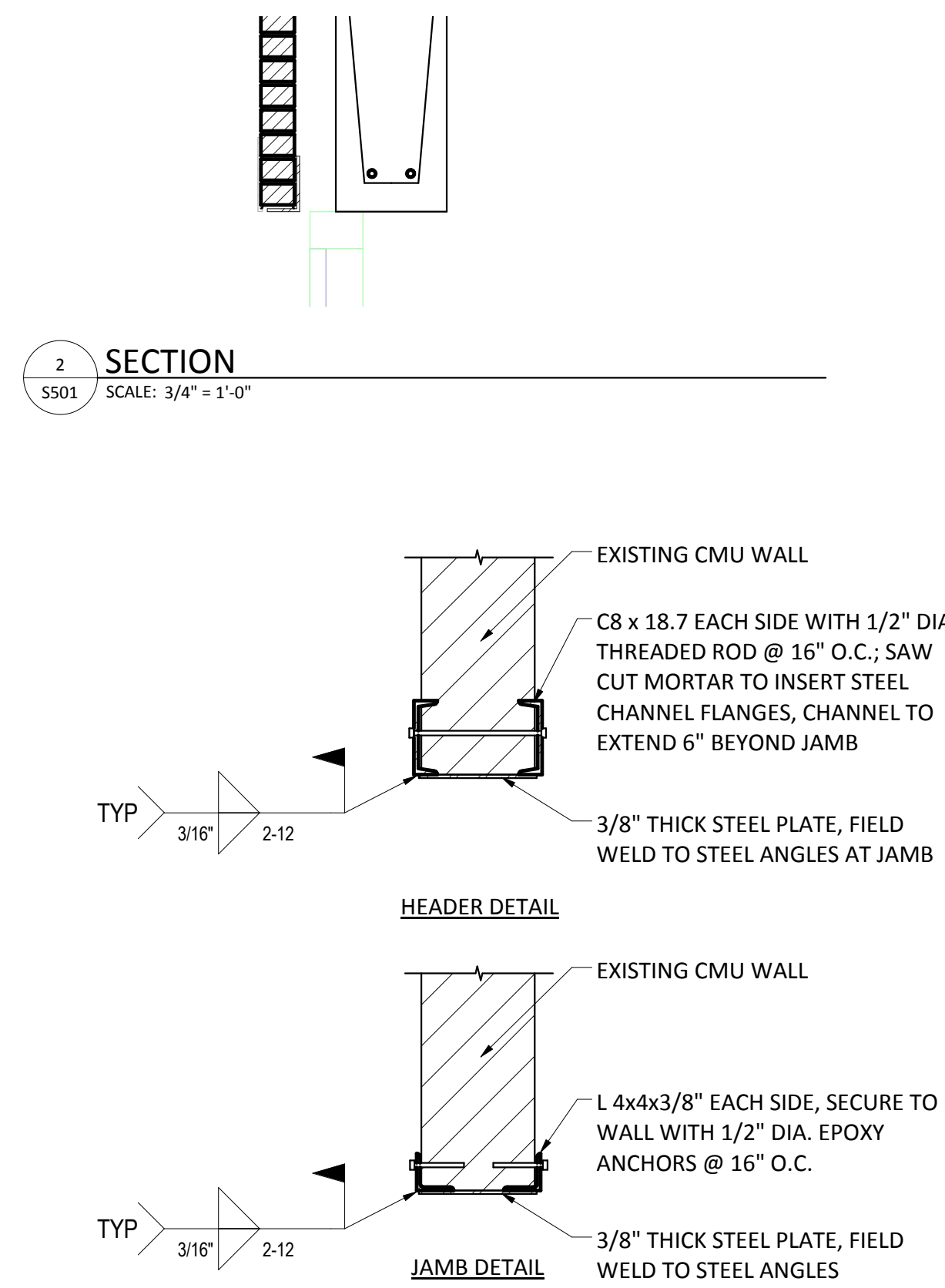
three inches = one foot
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one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 SECTION - THROUGH ENTRY STAIRS
SCALE: 3/4" = 1'-0"

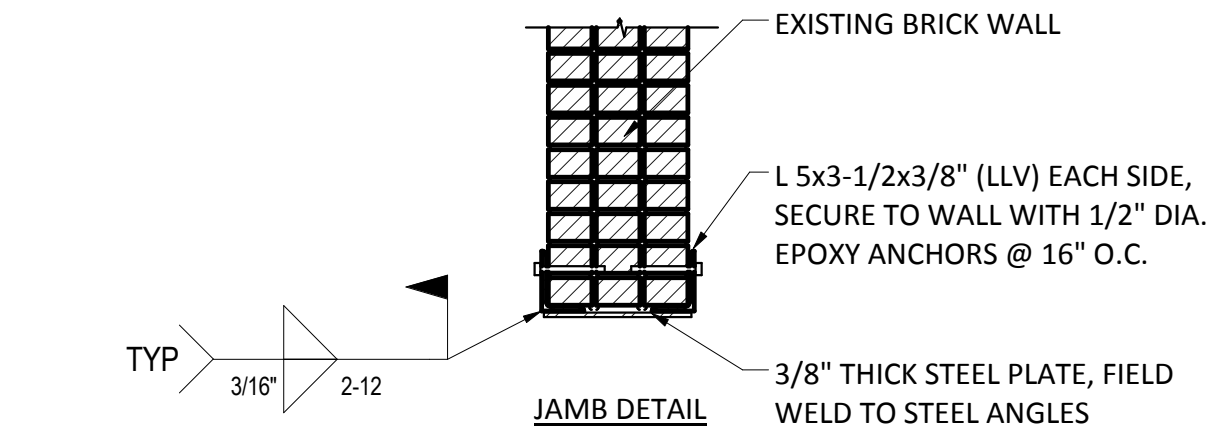


6 SECTION - THROUGH ENTRY STAIRS
SCALE: 3/4" = 1'-0"

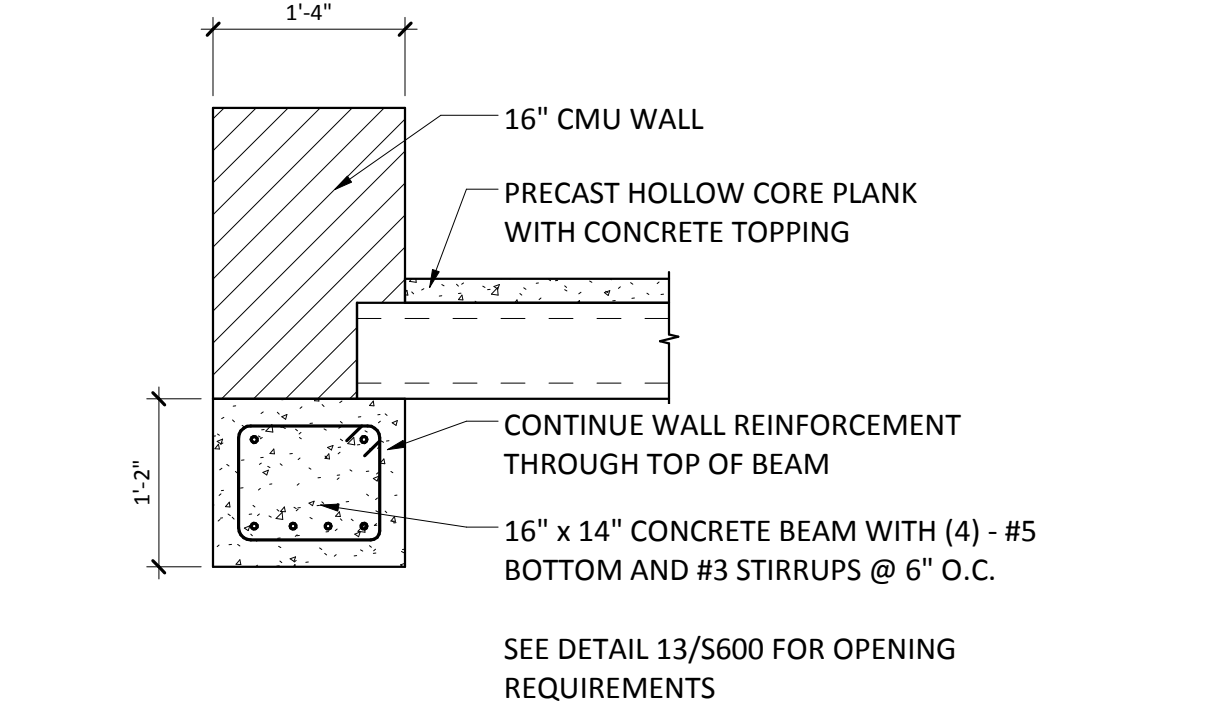


2 SECTION
SCALE: 3/4" = 1'-0"

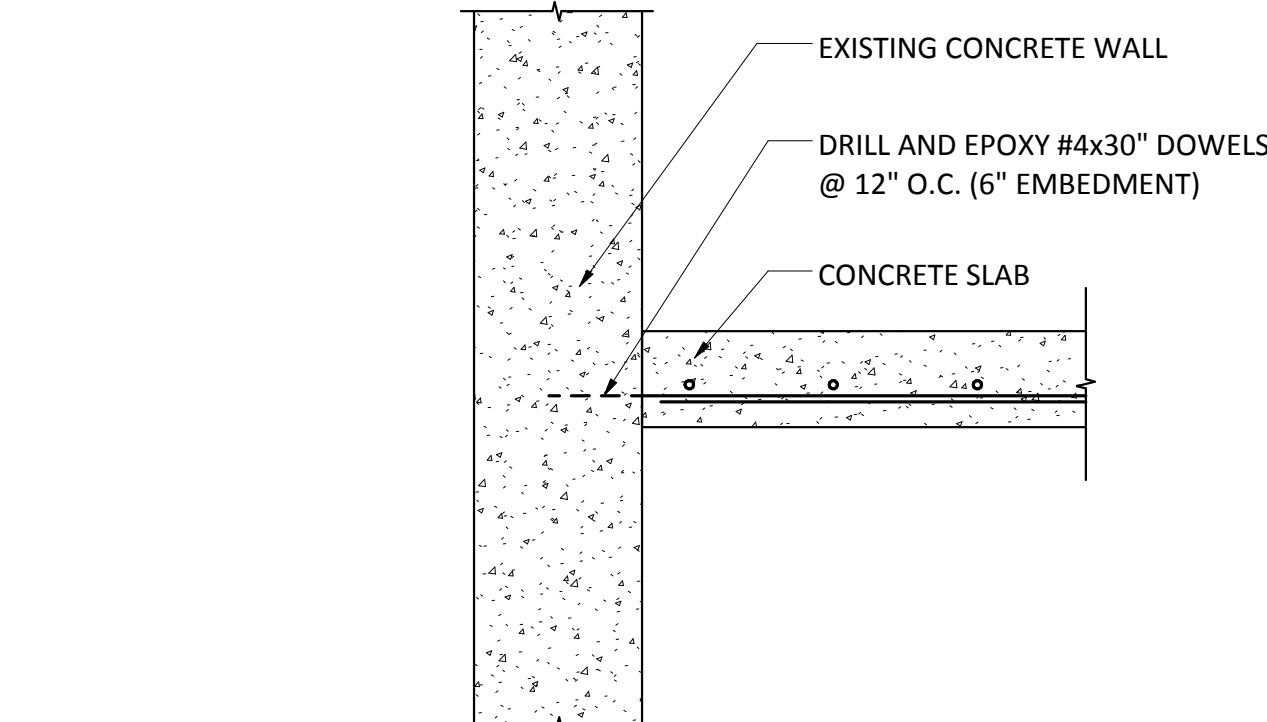
3 NEW WALL OPENINGS DETAILS
SCALE: NONE



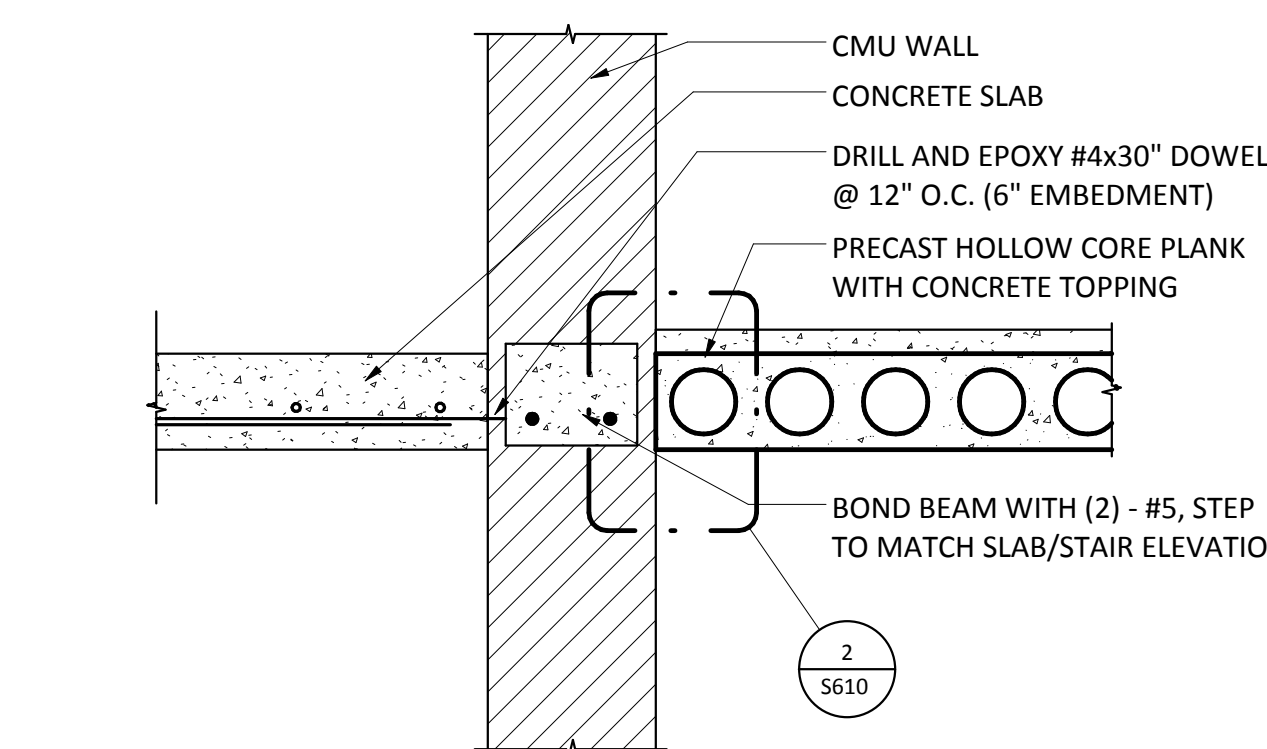
4 HEADER AND JAMB DETAIL
SCALE: NONE



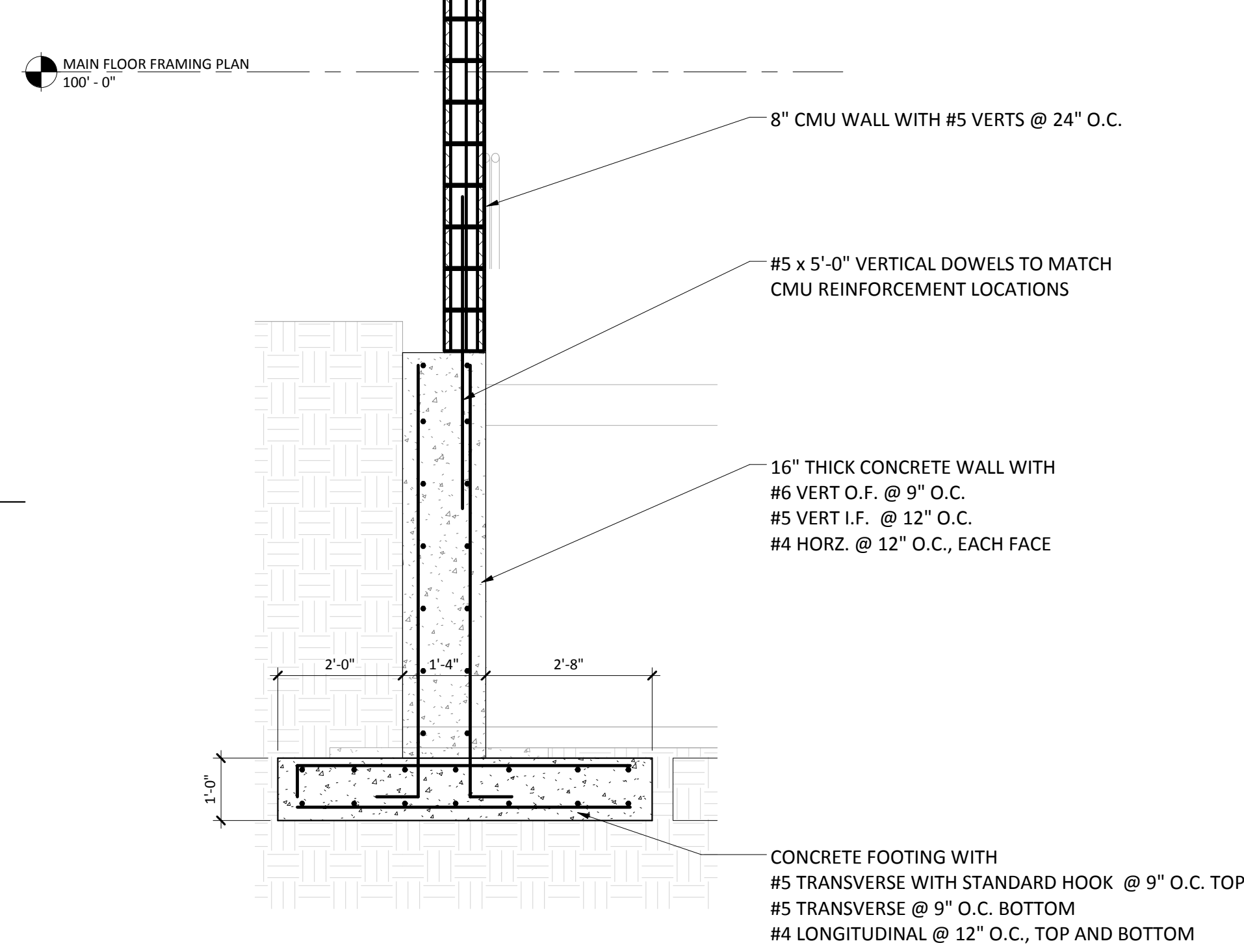
5 SECTION AT CONCRETE BEAM
SCALE: 3/4" = 1'-0"



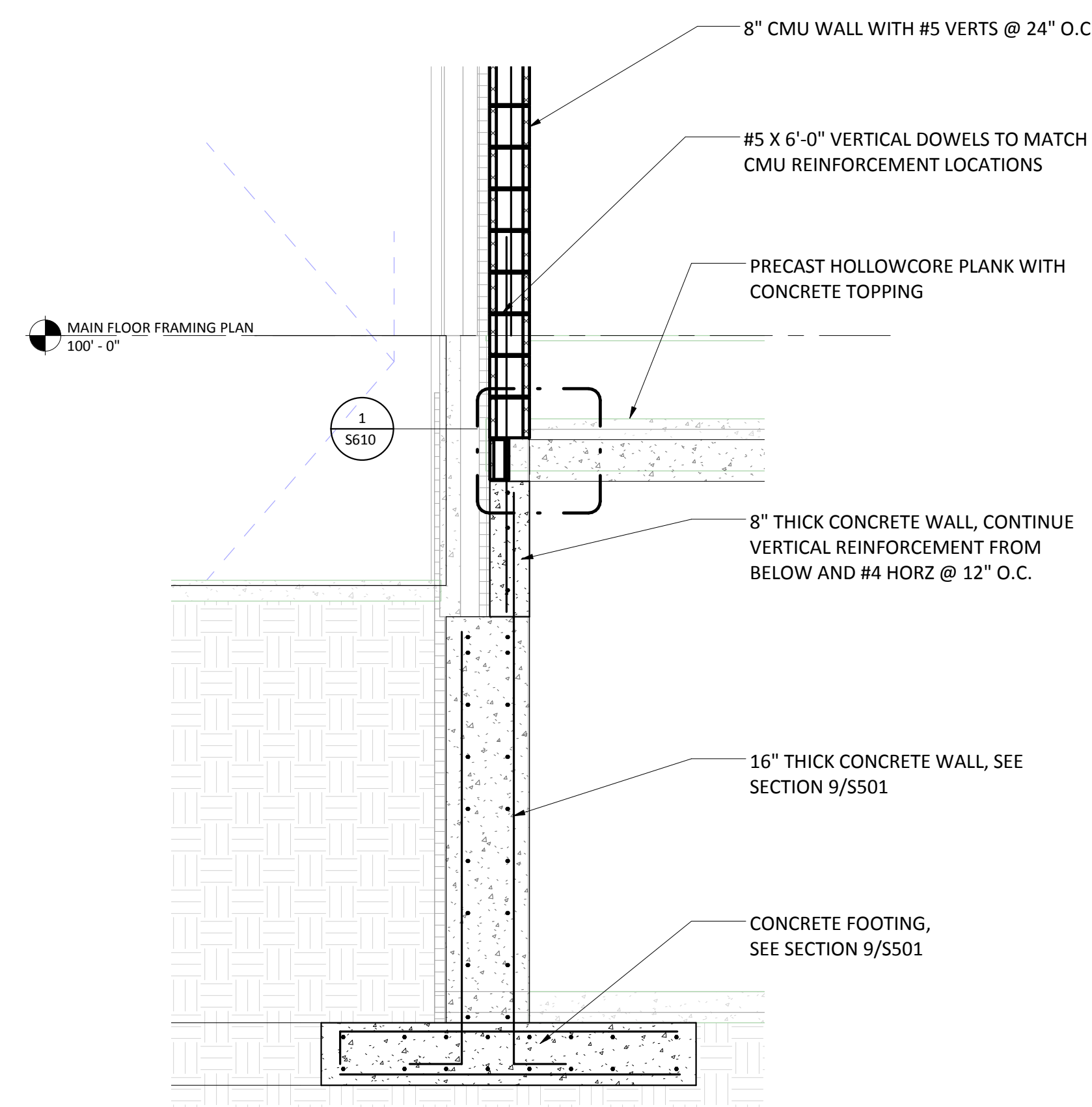
7 SECTION AT CONCRETE SLAB
SCALE: 3/4" = 1'-0"



8 SECTION AT SLAB/PLANK
SCALE: 3/4" = 1'-0"



9 SECTION
SCALE: 1/2" = 1'-0"



10 SECTION
SCALE: 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS 100%

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VA FORM 08-6231



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DATE: 04.01.15
DRAWN: L. ASCHER, P.E.
REV. NO.:
REV. NO.:

DRAWING TITLE

SECTIONS

PROJECT TITLE
CONSTRUCT NEW IT CENTER
FOR HEALTHCARE
TECHNOLOGY
MANAGEMENT EXPANSION

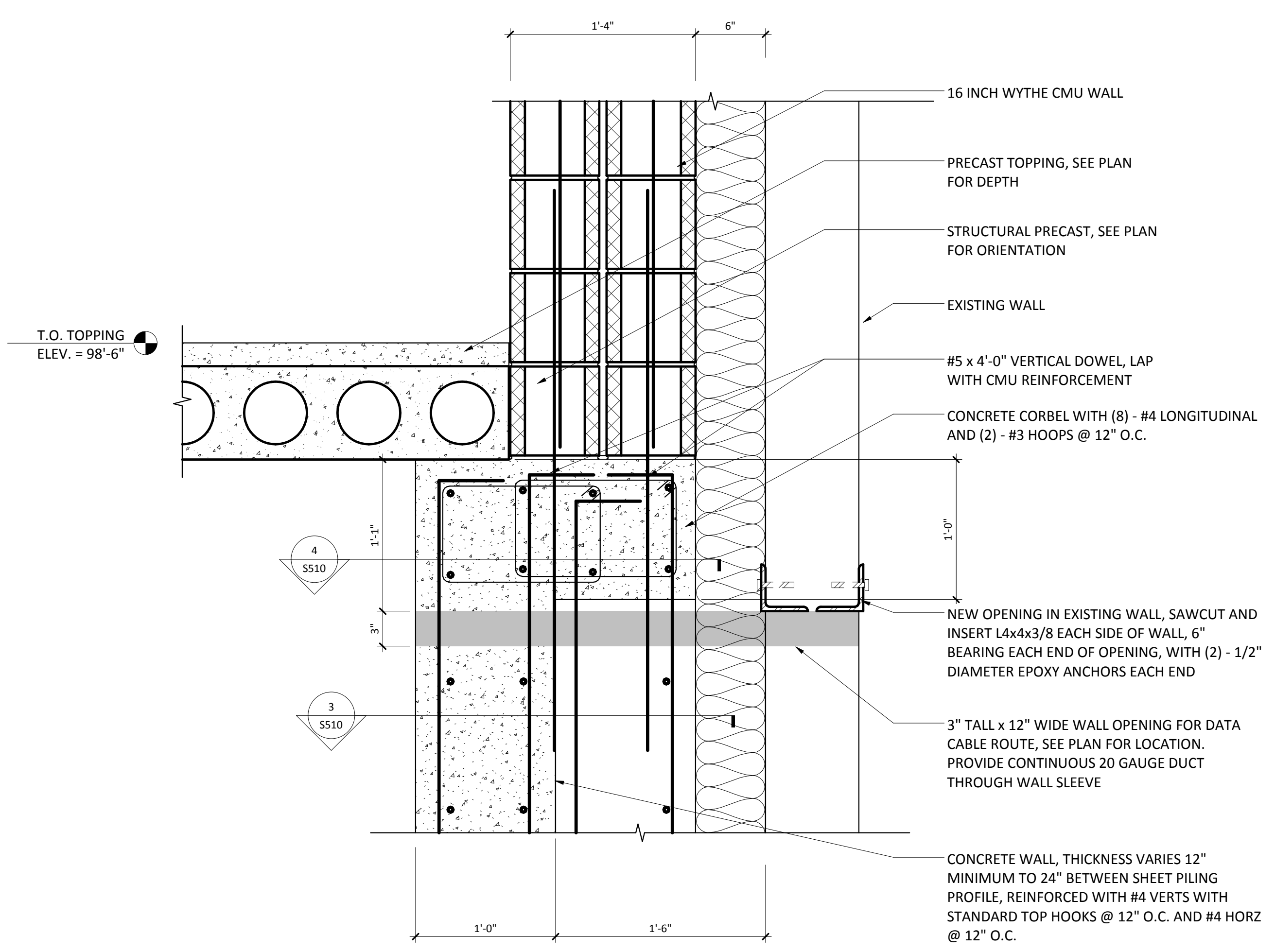
BUILDING NO. BA
DRAWN: AW
DATE: 04.01.15

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

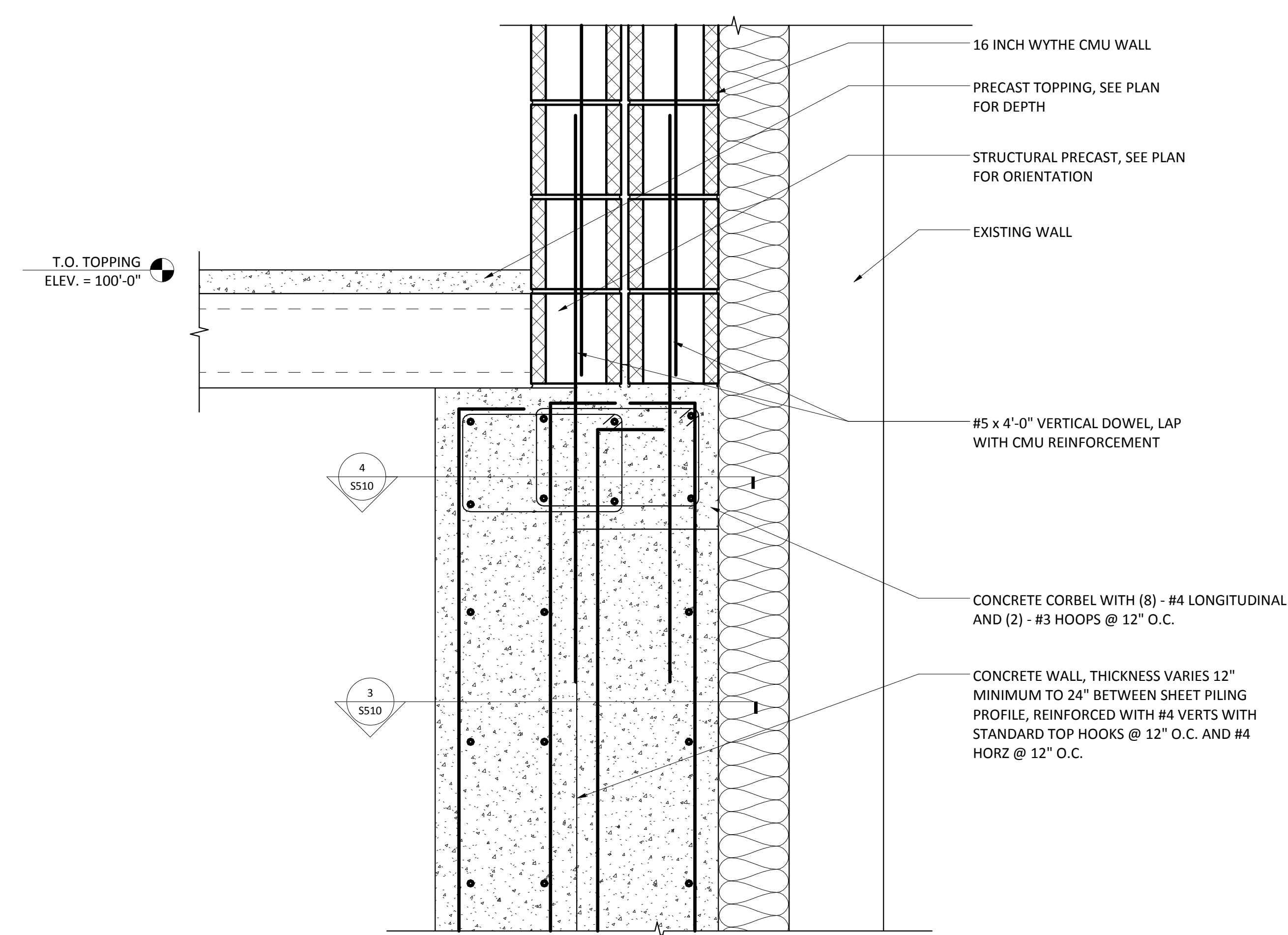
DATE: 04.01.15
PROJECT NO.: 666-14246
DRAWING NO.: S501
SHEET 2 OF XX



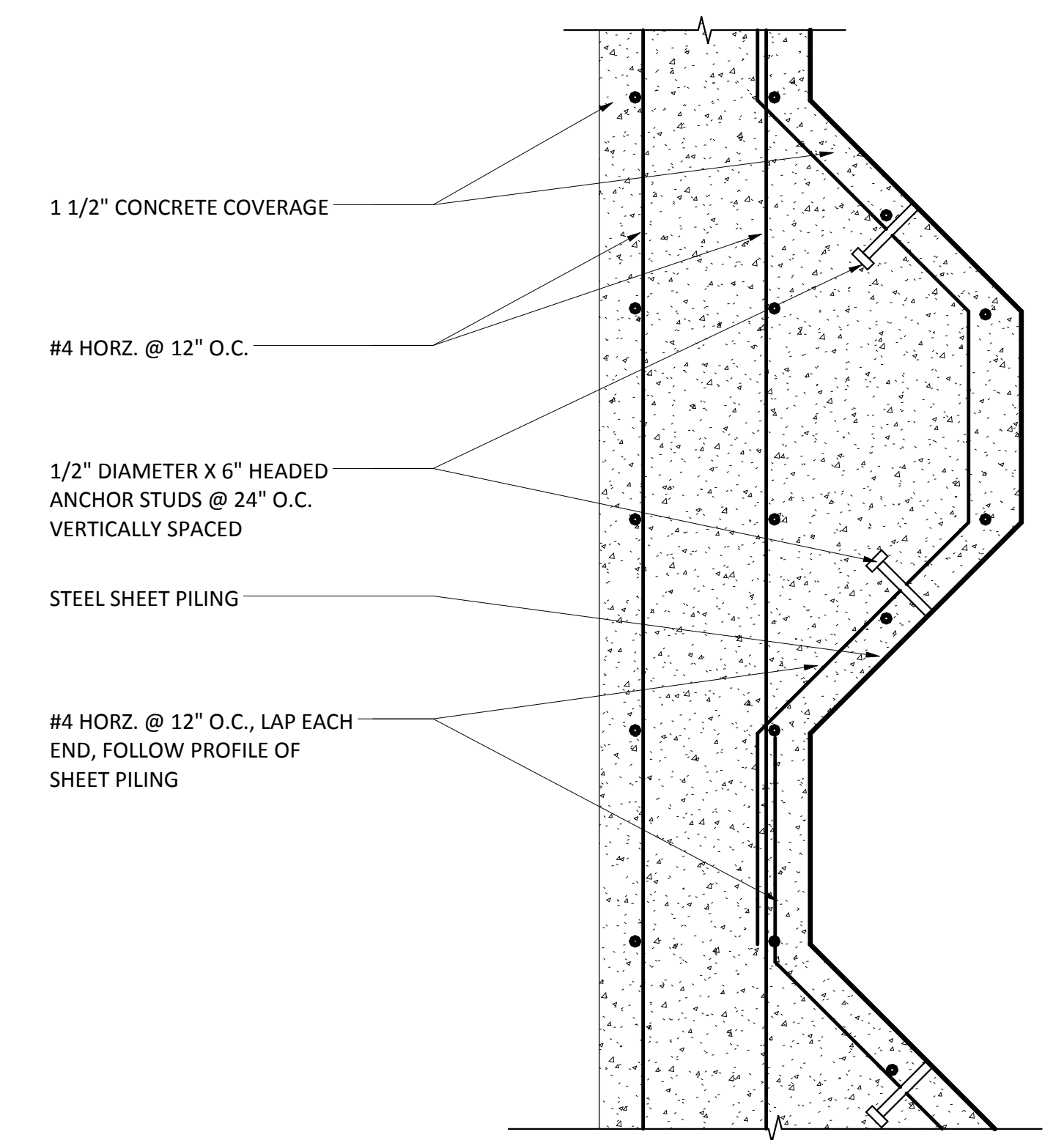
one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot



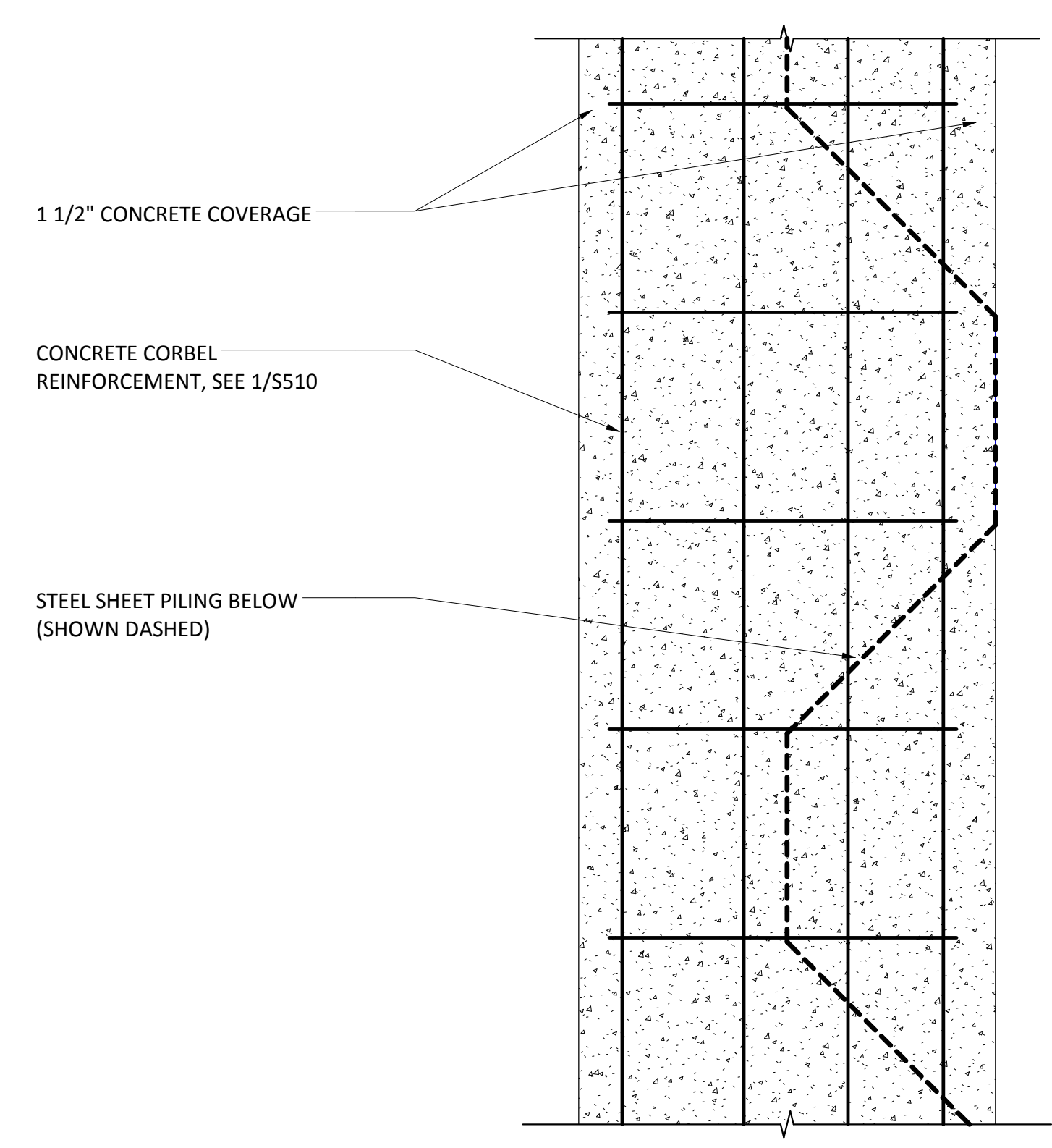
1 SECTION AT PLANK BEARING
SS10 / SCALE: 1 1/2" = 1'-0"



2 SECTION AT PRECAST TO EXISTING
SS10 / SCALE: 1 1/2" = 1'-0"



3 PLAN VIEW - BELOW CORBEL
SS10 / SCALE: 1 1/2" = 1'-0"



4 PLAN VIEW - AT CORBEL
SS10 / SCALE: 1 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS 100%

<div>VA FORM 08-6231</div>		<div>JLG architects</div> <div>Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2014</div>	<div><small>STAMPED: I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER THE CLOSE PERSONAL SUPERVISION OF A PROFESSIONAL ENGINEER, ARCHITECT, OR OTHER PERSON QUALIFIED BY EDUCATION AND EXPERIENCE TO PREPARE SUCH PLANS, SPECIFICATIONS, OR REPORTS, AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER, ARCHITECT, OR OTHER PERSON QUALIFIED BY EDUCATION AND EXPERIENCE TO PREPARE SUCH PLANS, SPECIFICATIONS, OR REPORTS.</small></div> <div><div><small>Brian L. Asche, P.E. DATE: 04.01.15 REV. NO.</small></div></div>	<div>DRAWING TITLE DETAILS</div>	<div>PROJECT TITLE CONSTRUCT NEW IT CENTER FOR HEALTHCARE TECHNOLOGY MANAGEMENT EXPANSION</div>	<div>DATE 04.01.15</div> <div>PROJECT NO. 656-14-246</div> <div>DRAWING NO. SS10 (REV. 2 OF XX)</div>	<div>St. Cloud VA Health Care System Brainerd Montevideo Alexandria</div> <div></div>
<div>NO</div>	<div>REVISION</div>	<div>DATE</div>					